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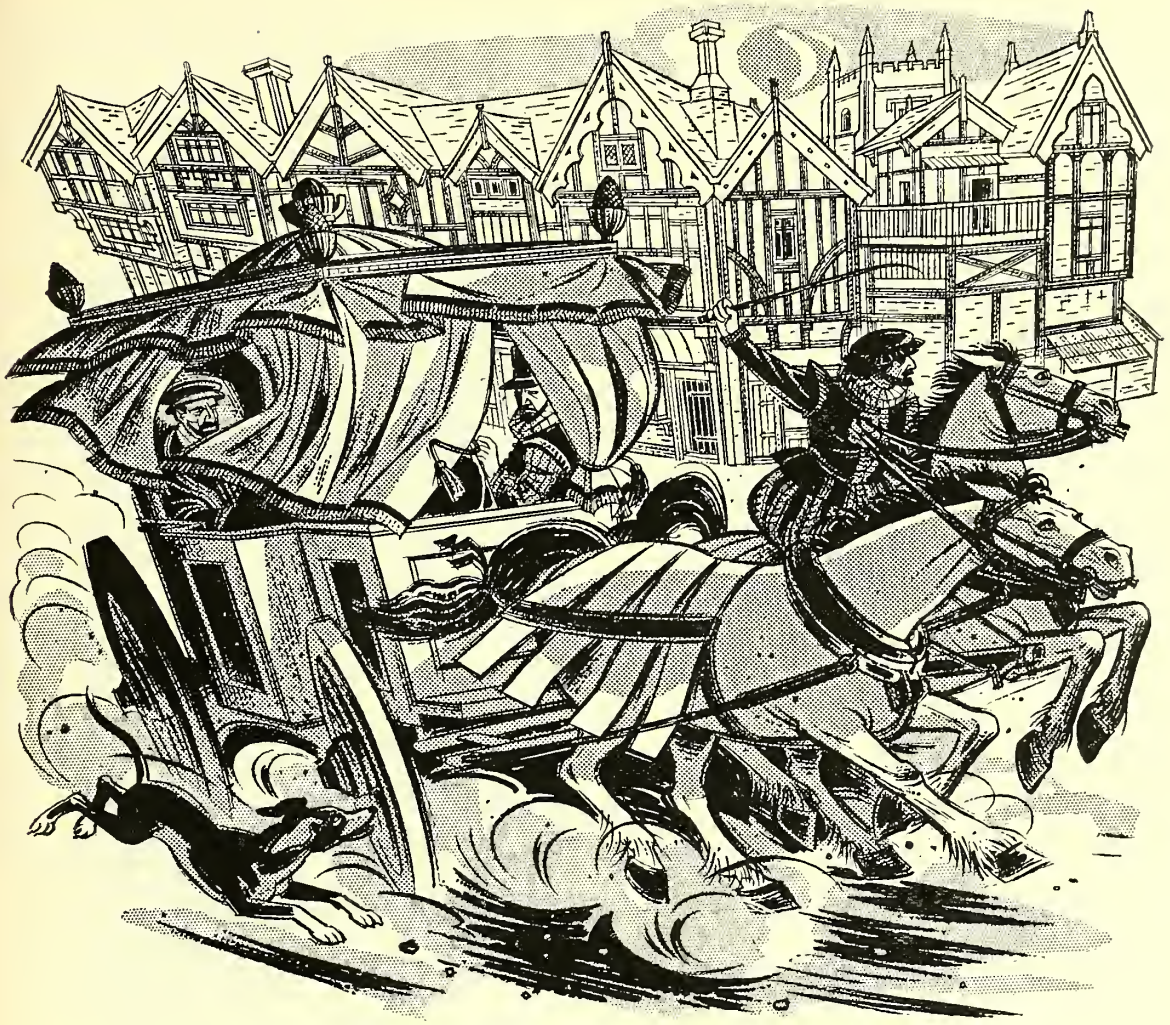


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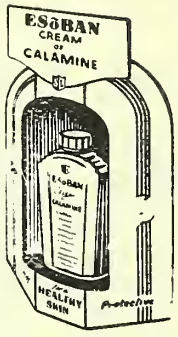
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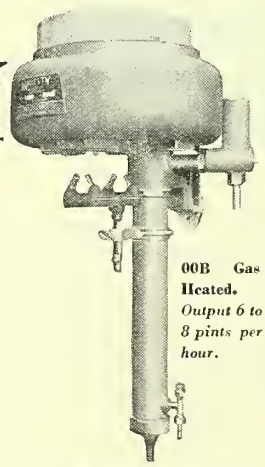
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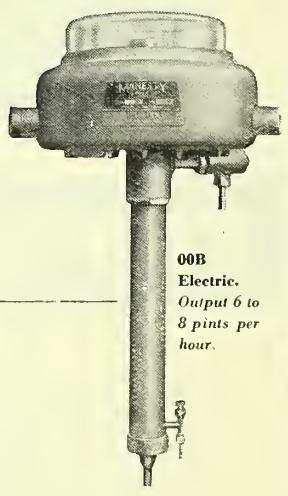
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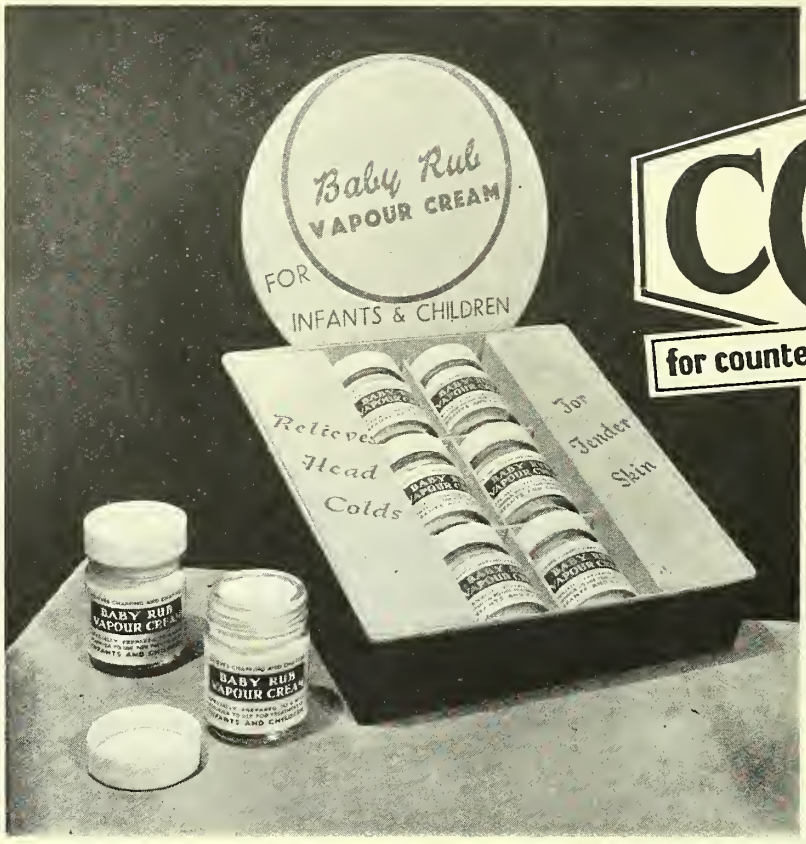


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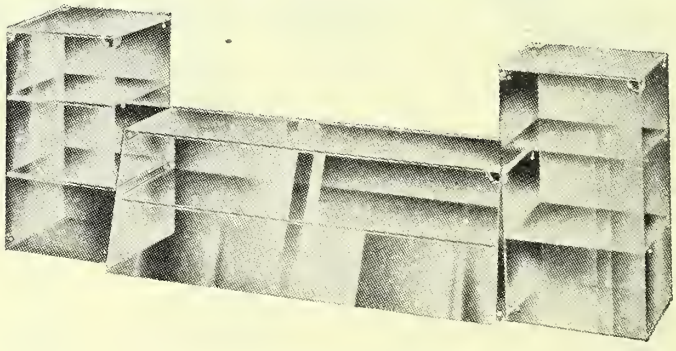
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Beauty Editress, Woman's Journal

The Lip Pencil—an easy-to-use cosmetic-crayon encased in wood that you can chip away just like an ordinary pencil. Painting a pretty mouth is as simple as writing your name. The Pencil comes in three colours and costs only 1s.

Helen Hugh, Daily Mirror.

How to get a firm, unsmudged lipstick edge. There's now a lip pencil, specially for pencilling in the outline. Shape your lips, then fill in with your favourite lipstick. The pencil comes in Light, Medium and Dark to blend with most lipstick shades. And costs? Only 1s.

Nan Playfair
Weldon's Home Journal

Another find for those who cannot easily get a clean-cut outline to the lips is a beautifully soft lip pencil (Bartlett's) price 1s. It is made in Light, Medium and Dark shades which blend in imperceptibly with all the most popular lipstick colours.

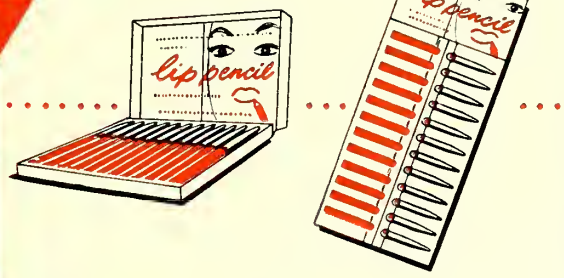
Anne Seymour,
Woman and Beauty

Putting on lipstick isn't as easy as it sounds, particularly if you haven't a very steady hand. There are, however, special lip pencils which help a lot when it comes to tracing a firm outline. You can get them in three shades, "Light," "Medium" and "Dark" to harmonize with your ordinary lipsticks. Each pencil costs a shilling.

Mary Moore, Woman's Illustrated

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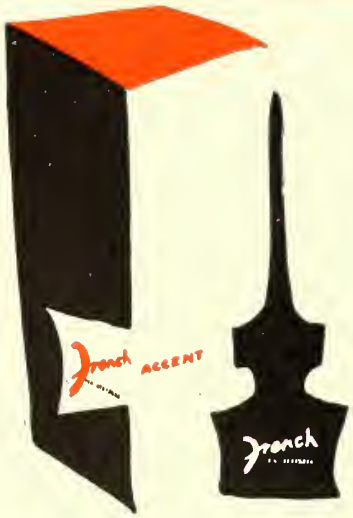
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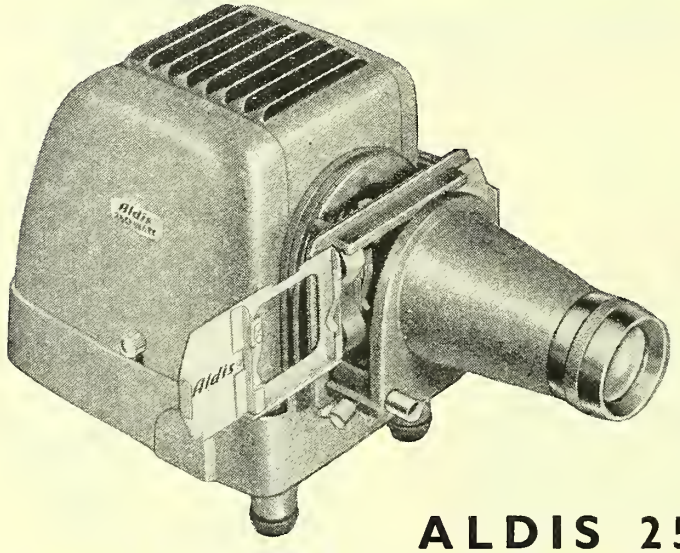
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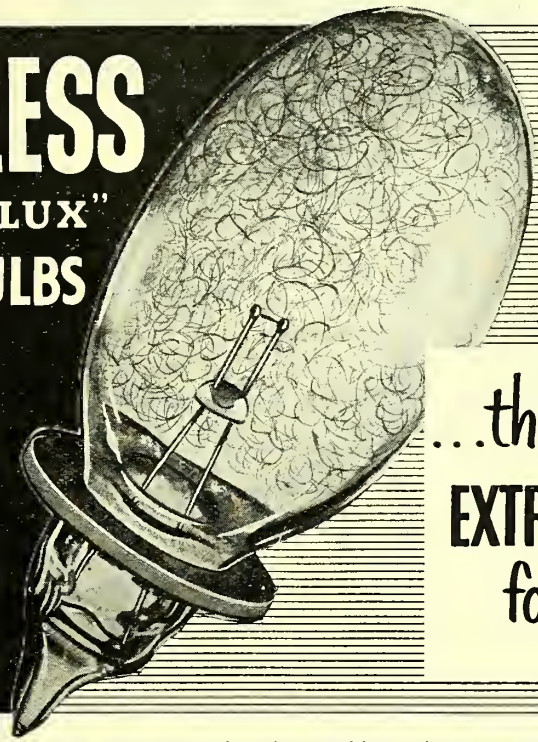
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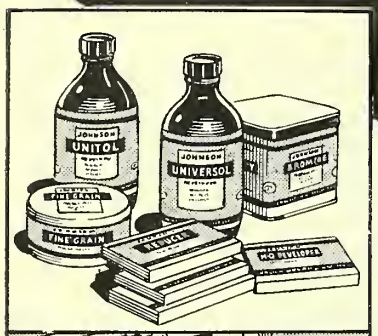
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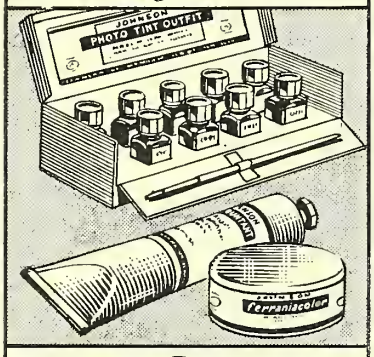
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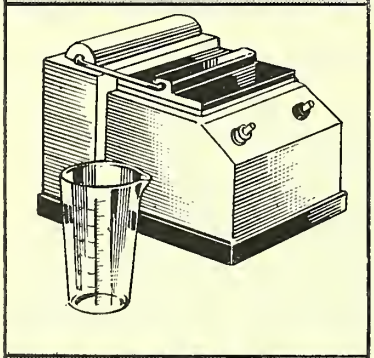
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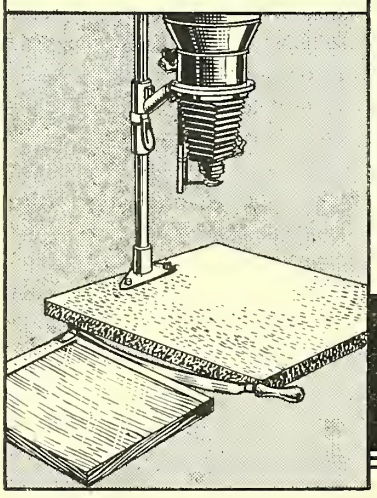
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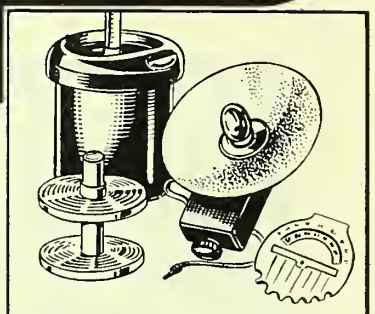
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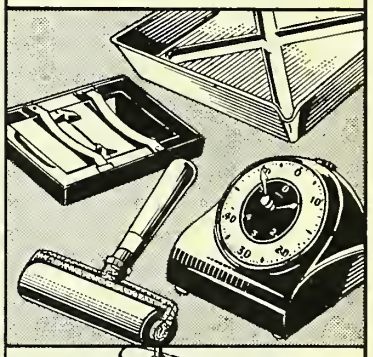
● ***Voigtländer* CAMERAS**

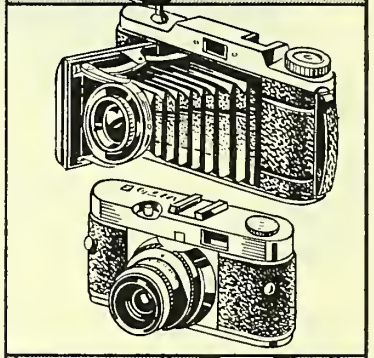
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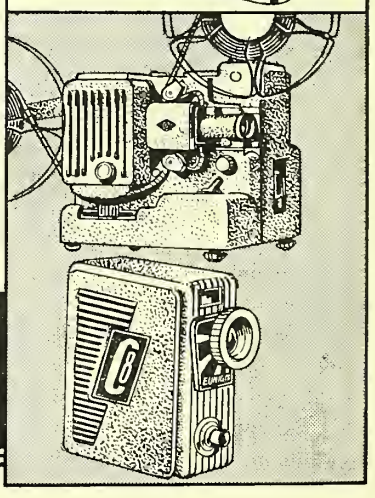
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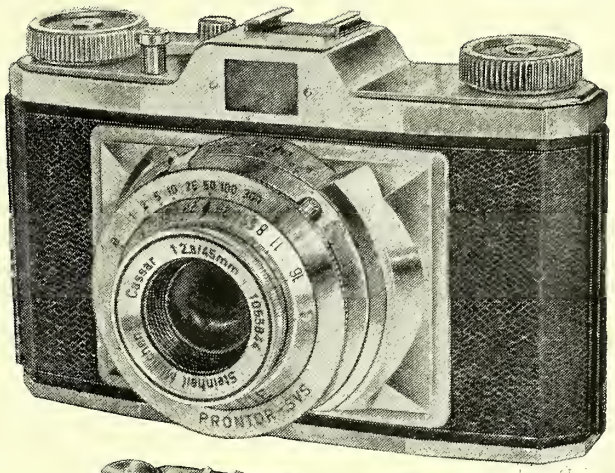


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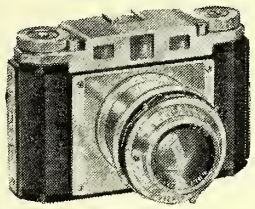
F/2·8 Steinheil-Cassar lens
Prontor SVS Shutter. Lever Wind
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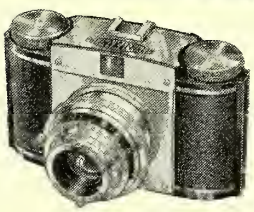
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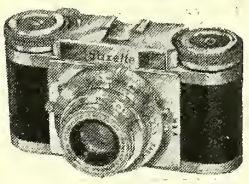
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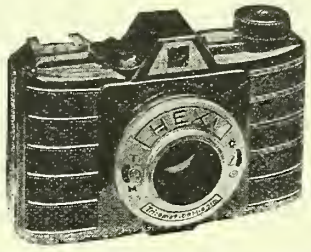
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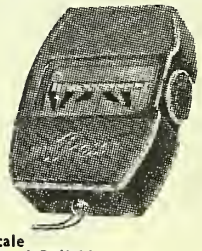
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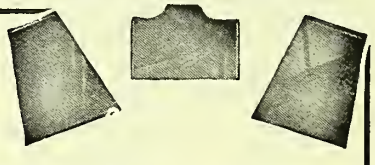
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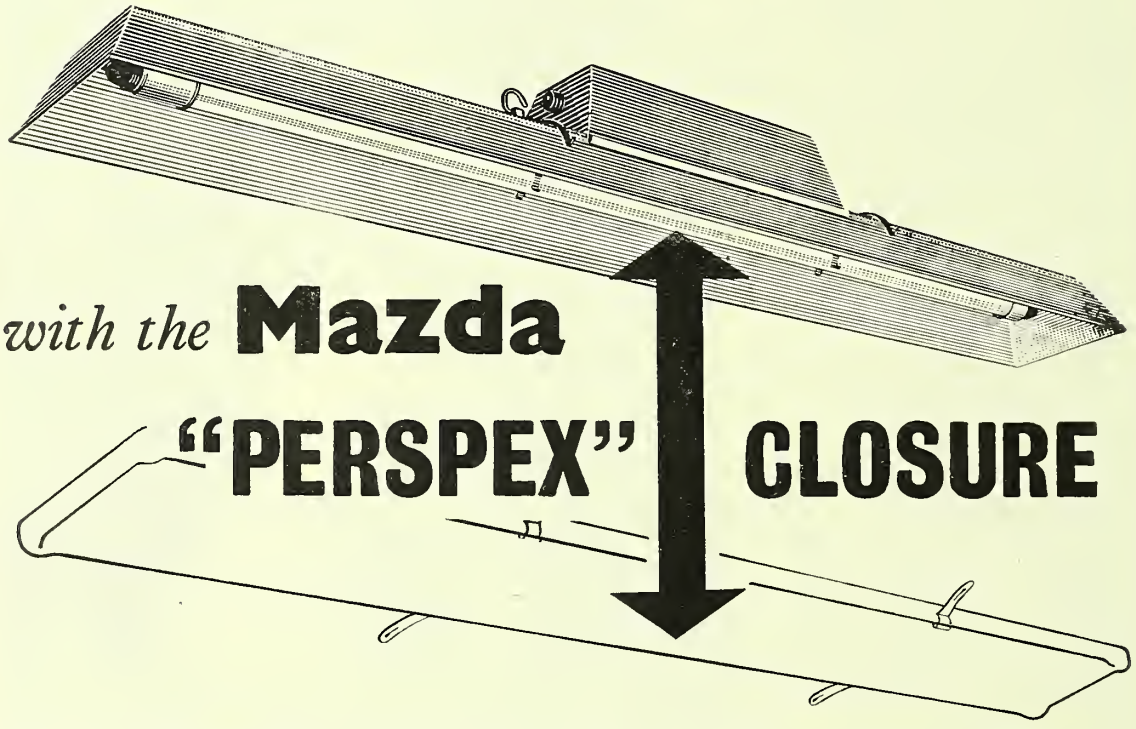
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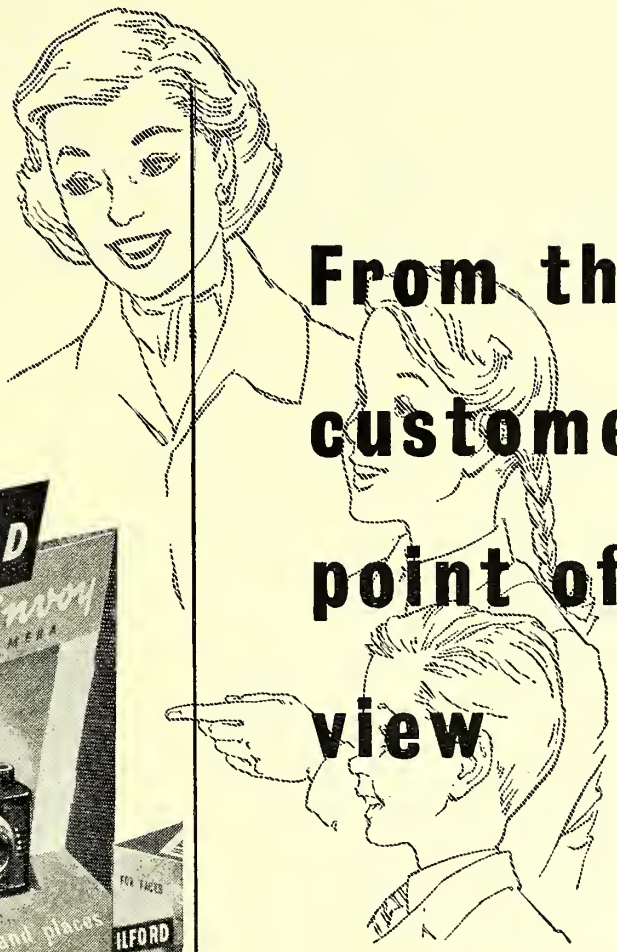
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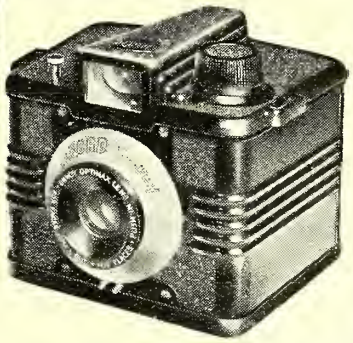


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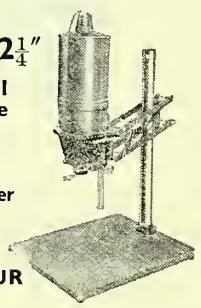
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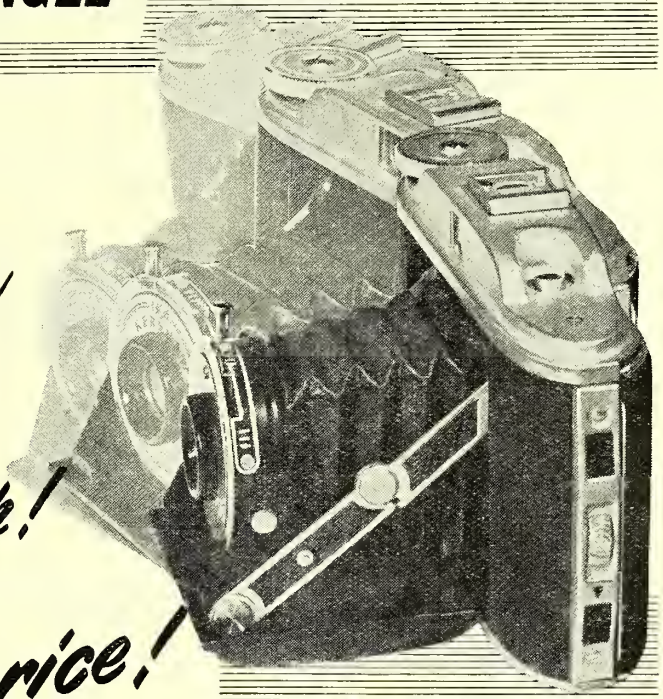
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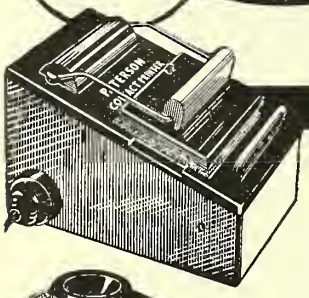
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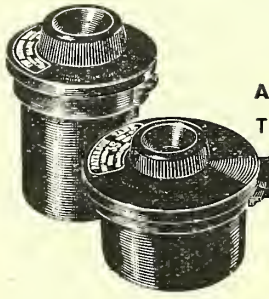
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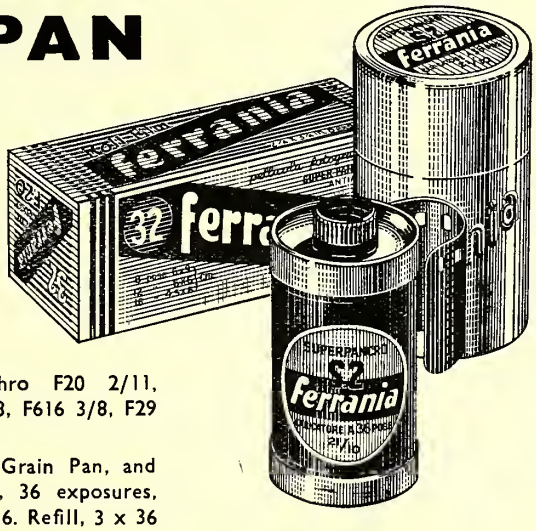
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ROLL FILMS. Superpanchro F20 2/11, F620 2/11, F27 2/7, F16 3/8, F616 3/8, F29 2/11.

35 mm. FILMS. P.3 Fine Grain Pan, and S.2 Superpanchro cassettes, 36 exposures, 8/9. Refill, 36 exposures, 4/6. Refill, 3 x 36 exposures 12/1. Refill, 10 x 36 exposures, 36/11.

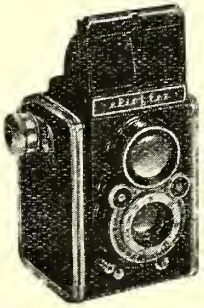
NEVILLE BROWN & CO., LTD.
77 NEWMAN STREET · LONDON · W.1 Telephone: LANgham 7161 (10 lines)

DISTRIBUTED by NEBRO

ferrania CAMERAS



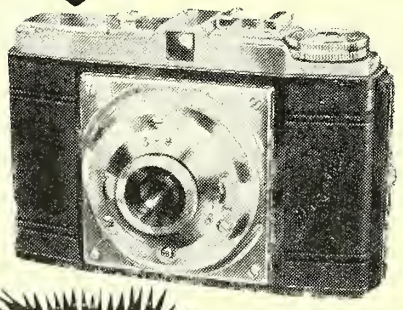
IBIS 27 ... £3 15 0
IBIS 6 x 6 ... £4 18 6



ELIOFLEX ... £11 18 6

A low price camera with a very large market..

DIGNA 1



£4·10·0

This is the camera that appeals so much to the young amateur photographer. It has f7.7 lens, apertures of f8 and f11, body shutter release, adjustable focus, new self-erecting lens head, and a completely removable back for easy loading. The Digna 1 gives 12 2½ x 2½ pictures on either 120 or 620 film. The viewfinder is integral with the body.

E.R. Carrying Case **£1 10s. 0d.**

also the DIGNA 3

This is the latest addition to the Digna range. Body construction is the same as other Digna models with telescopic lens barrels. The Digna 3 takes 12 2¼ x 2¼ pictures on 120 film. f6.3 coated Subita lens, Singlo shutter with 1/25th 1/75th sec. and B. Synchronised for bulbs at 1/25th and electronic flash at both speeds. Integral viewfinder and accessory shoe.

Price **£6 19s. 6d.** incl. tax

E.R. Case (CC4) **£2 5s. 11d.** Real Hide

,, ,, (CC3) **£1 10s. 0d.** Imitation

AMPLION (1932) **LTD.**

230 TOTTENHAM COURT ROAD, W.1

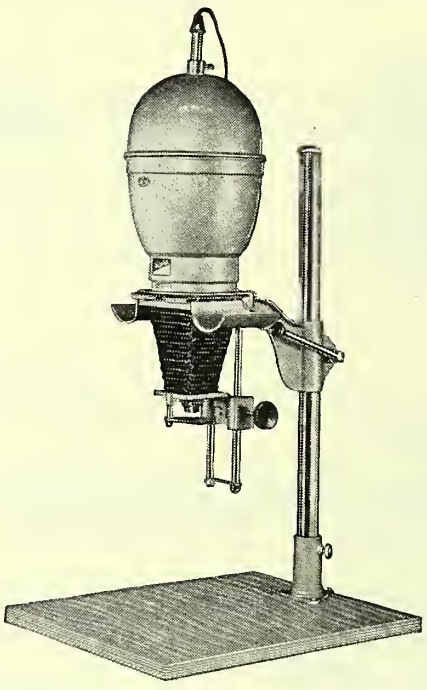
Telephone: LANgham 6738

GNOME

UNIVERSAL ALPHA

ENLARGER

FOR ALL NEGATIVES FROM $3\frac{1}{4} \times 2\frac{1}{4}$ in. to 35 mm.



from **£13 · 17 · 8**

TAX PAID

Solve your enlarger stock problem with a Gnome UNIVERSAL ALPHA!

Designed for the popular $3\frac{1}{4}$ x $2\frac{1}{4}$ in. format, conversion units are available to fit 3 in. and 2 in. lenses for $2\frac{1}{4}$ in. square and 35 mm. negatives. And remember—Gnome enlargers are backed by extensive advertising and a world wide reputation!

Full details and prices in the comprehensive catalogue from:

GNOME PHOTOGRAPHIC PRODUCTS LTD.

354 CAERPHILLY ROAD, CARDIFF

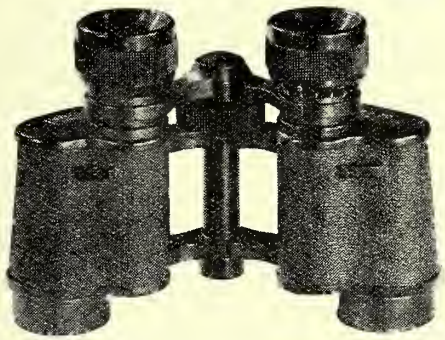
HAYNOR LTD. PRESENT

the most comprehensive selection of

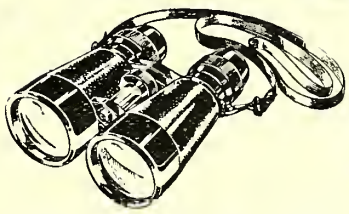
FIELD GLASSES AND BINOCULARS for 1955

For 1955 Haynor Ltd. offer the most comprehensive selection of Field glasses and Binoculars at the most competitive prices. Do not sacrifice this most valuable market to the 'mail order' houses.

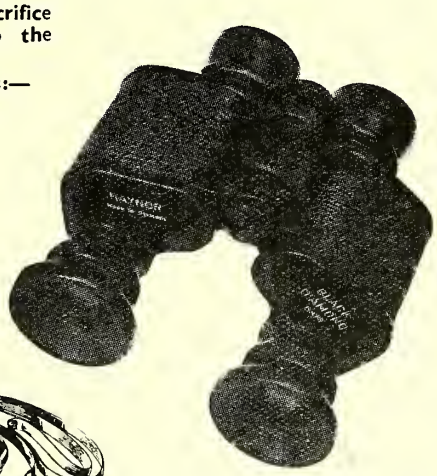
Here are only a few examples:—



Haynor 8 x 30 prismatic.
Retail Price **£9 15s. 0d.**
SOLID HIDE CASE £2.9.9



Siefried Riefler's high quality field glasses.
Retail Price from **52/6d.**
PLASTIC POUCH 12/-



The very latest and smallest Haynor Black Diamond measures only 3″ x 3½″ x 1¾″.
Retail Price **£16 10s. 0d.**
HIDE OR ZIP CASE EXTRA

Write for our latest price list which includes many new models up to 20 x 40 *and order now stating date of delivery required.*

Full trade terms, 33⅓% *discount, less* 2½% *monthly.*

HAYNOR LIMITED
167 GREYHOUND ROAD, LONDON, W.6.

POST THIS COUPON TODAY
TO HAYNOR LTD., 167 GREYHOUND ROAD, LONDON, W.6.
Please send illustrated folder.

Name .....

Address .....

CLOSES March 19

LAST FEW DAYS!

Dr. Scholl's "PADS" BONUS OFFER

Seize the opportunity NOW to increase your profit by 50%

14 to the Dozen—

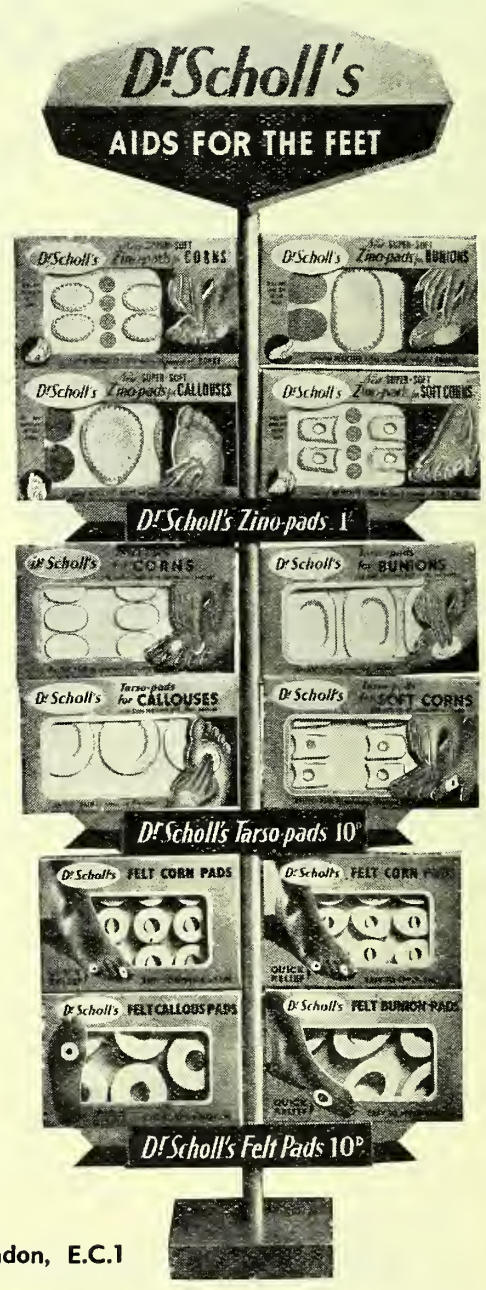
Dr. Scholl's Zino Pads
Dr. Scholl's Tarso Pads
Dr. Scholl's Felt Pads

Dr. Scholl's Foot Aids can bring in a bigger profit margin than ever if you act at once. Send in your order now and you can obtain a selection of the biggest-selling Dr. Scholl's Corn, Callouses and Bunion Pads on Bonus Terms of 14 to the dozen. With this once-in-the-season offer we supply free our new simplified, ready-dressed FOOT AIDS BANNER STAND.

During 1955 the heaviest National Advertising Campaign ever undertaken for FOOT AIDS will bring more and more customers into your Pharmacy asking for Dr. Scholl's.

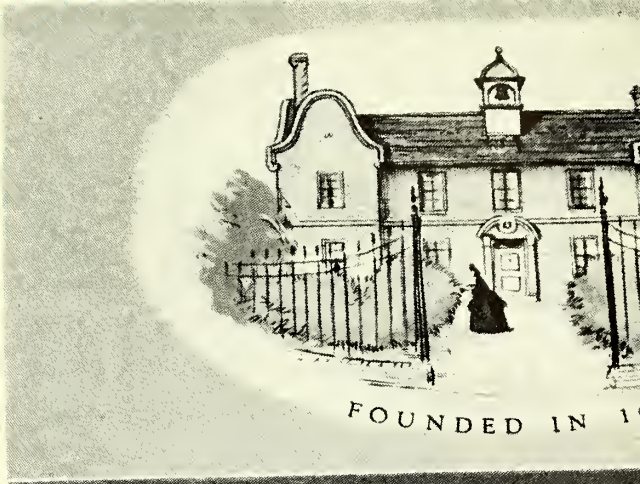
This Banner Stand halves your "Selling" yet Doubles your Sales. Supplied ready dressed to put on your counter.

FREE



SCHOLL MFG. CO. LTD. 182-204 St. John Street, London, E.C.1

It pays you well to display it well





Every time you sell a 10d tablet of soap instead of a 6d tablet you boost your turnover by 66%. This is why it pays to display Field's—the soap with the wonderful lavender perfume, the attractive packing, the big publicity. Field's sells easily because it is backed by full-page, full-colour advertising in women's magazines—and it repeats because it is such a very good soap.

Let them see 

Field's

Buckingham Lavender

AMERSHAM BUCKINGHAMSHIRE FIELD'S ESTABLISHED 1642 162 NEW BOND ST., LONDON W.1

A New Approach

to such conditions as

MBL

CHOLECYSTITIS
DYSPEPSIA & HYPERCHLORHYDRIA
GASTRIC & DUODENAL ULCERS
POST-GASTRECTOMY SYNDROMES



SECRETIN MEBIOL

The Duodenal Hormone
purified, standardised and
physiologically controlled
for stimulating

PANCREATIC & BILIARY SECRETION

SECRETIN, now available on a commercial scale, has been successfully introduced to the Medical Profession.

We will be pleased to supply full details of SECRETIN and to accept orders either direct or through your usual wholesaler.

MEDICO-BIOLOGICAL LABORATORIES LTD

CARGREEN ROAD, SOUTH NORWOOD, LONDON, S.E.25

New Boxes!

SAME BIG PROFITS!

11D
PROFIT
ON EVERY BOX

FAMILY PACK
(300 tissues) 2/9 each.
Trade 22/- a doz.



The well known Andrex pack is changed to a two-tone blue. This adds to its appeal, on your counter and in the customer's home. But it is still the same easy-to-recognise Andrex product that's now an established family favourite.

4D
PROFIT
ON EVERY BOX

BOUDOIR PACK
(100 tissues) 1/- each.
Trade 8/- doz.



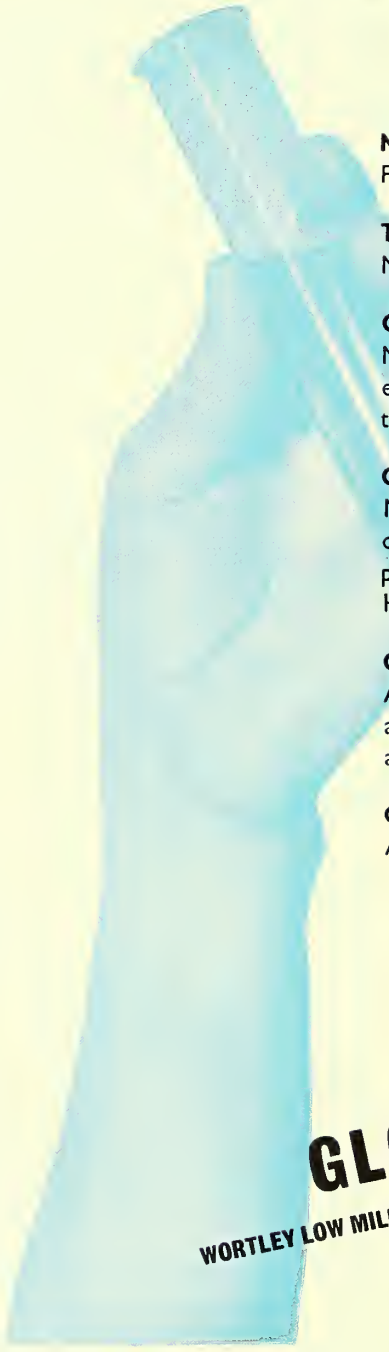
Andrex Tissues are made by the makers of Andrex Toilet Tissue.

YOU MAKE MORE PROFIT ON ANDREX PRODUCTS

GAG

ANOTHER ALL BRITISH PRODUCT FROM ST. ANDREW MILLS. LONDON. E.17.

A Comprehensive Range



MORPANS CH & CHS (CETRIMIDE BP)
Powerful Quaternary. Bactericides for Antiseptic Cleansing.

TEXOFOR A1P (CETOMACROGOL 1000 B.P.C. 1954)
Non-Ionic Emulsifier and Dispersant.

COLLONE NI (CETOMACROGOL WAX B.P.C. 1954)
Non-Ionic Emulsifying Wax for inert emulsions, resistant to extreme pH values, hydrolytic agents and high salt concentrations.

COLLONE AC
Non-Ionic Emulsifying Wax especially valuable for hydrocarbon emulsification ranging from light oils to high melting paraffins.
Hydrophilic base Pharmaceutical and Cosmetic preparations.

COLLONE SE
Anionic Emulsifying Wax for producing emulsions exceptionally stable to temperature changes and giving high viscosities at low concentrations.

COLLONE HV
Anionic Emulsifying Wax Base for the Cosmetic Industry.

GLOVERS (CHEMICALS) LTD.
WORTLEY LOW MILLS, WORTLEY, LEEDS 12. Tel: Leeds 38037. Grams: "Glovers, Wortley, Leeds."

It's just your line too!

This is one of the 1955 Arvin advertisements, showing David Nixon, famous and popular T.V. star, using his Arvin Consort.

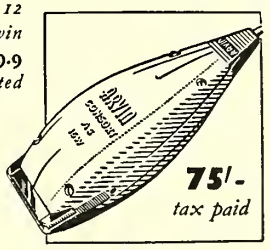


"Just my line"

says DAVID NIXON *famous T.V. Star*

" Perhaps it's because I'm fond of vanishing tricks that I like the Arvin Shaver. It certainly makes my whiskers do the disappearing act. I just plug in and in a minute or so I get a close, smooth refreshing shave, and a comfortable feeling of being well groomed."

The Arvin Consort is a high quality electric shaver at a specially low price, made possible by well-planned manufacturing technique. Self-aligning shears and self-sharpening cutting head. A.C. only. 12 months guarantee. Only **75/-**. *Other Arvin models: De Luxe,* **£5.5.5**. *Arvin '33',* **£8.19.9** *in real hide case Send for free illustrated leaflet SD6.*



ARVIN

ELECTRIC SHAVERS

First—and ***still*** *the foremost all British electric shaver*

ARVIN ELECTRIC LIMITED, FERNBROOK AVENUE, SOUTHEND-ON-SEA

Here's the line that sells quickly and shows you a generous profit—the Arvin Consort Electric Shaver. It's the lowest priced nationally advertised electric shaver on the market today, retailing at 75/- including tax. Thousands of traders are making a good profit out of Arvin. Why not you? Nationally advertised—in the following newspapers and periodicals :

DAILY EXPRESS	REVEILLE
DAILY MAIL	WEEKEND MAIL
DAILY TELEGRAPH	TIT-BITS
PEOPLE	RADIO TIMES
SUNDAY EXPRESS	BOY'S OWN PAPER
SUNDAY DISPATCH	EAGLE
NEWS OF THE WORLD	

Leaflets and showcards supplied on request

ARVIN ELECTRIC LIMITED · FERNBROOK AVENUE · SOUTHEND-ON-SEA

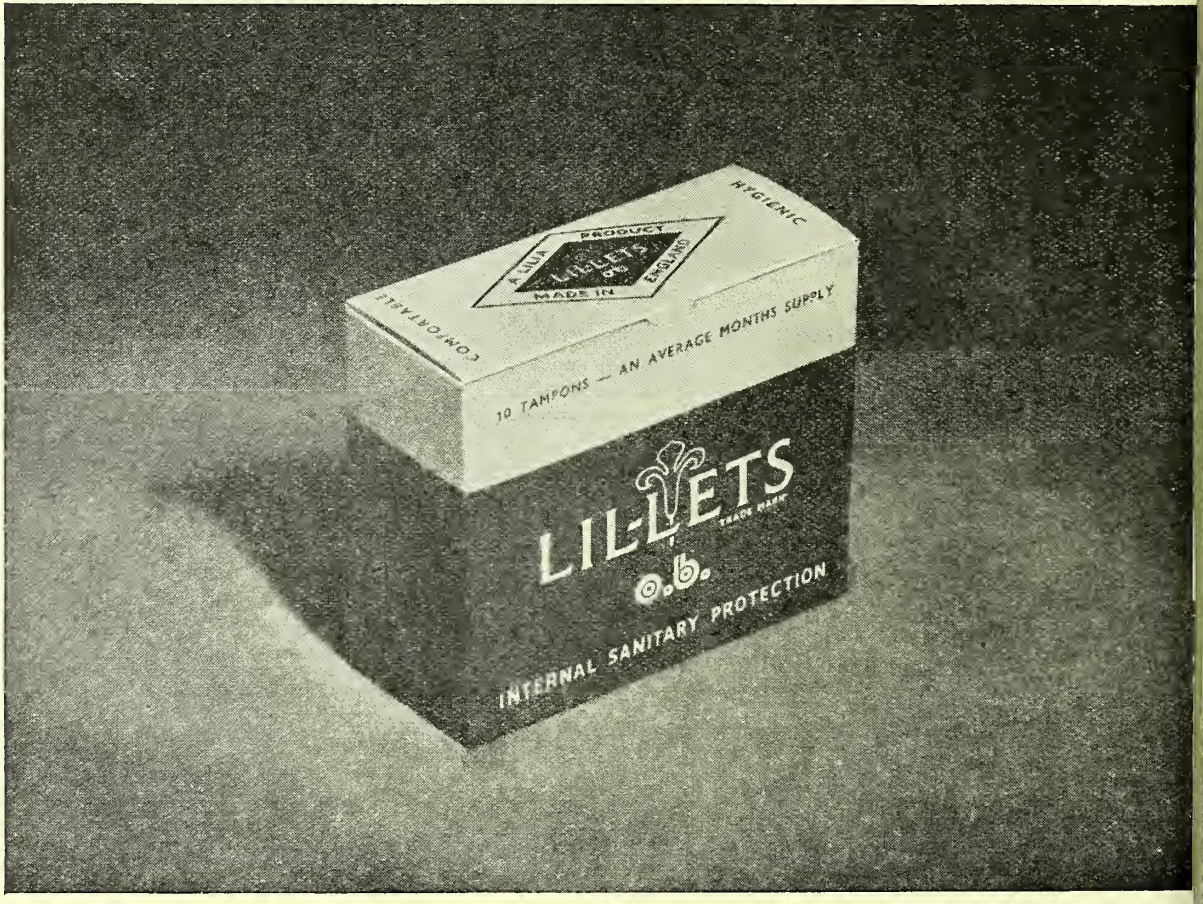
F

Big Promotion Plans

☆ ☆

Here's the new form of sanitary protection that has already swept the Continent

LIL-LETS—new to this country—are the most effective, hygienic, and convenient form of sanitary protection yet devised. That is why, in one of the largest countries on the Continent, the product now known here as Lil-lets started level with two other brands and quickly shot ahead to claim 70% of the entire tampon market. Lil-lets will be a best seller in this country too—at the attractive retail price of 1/6d.



for LIL-LETS....

☆ ☆

TO GET LIL-LETS OFF TO A FLYING START

INTRODUCTORY BONUS OFFER

24 packets for the price of 20. 13/6 profit on 22/6d outlay.

★

ATTRACTIVE TRADE TERMS

13/6d per dozen—
to retail at 1/6d per packet
4/6d profit on 13/6d outlay.

The largest ever advertising campaign to run throughout the year

A powerful and well-planned campaign of big advertisements will appear in the women's magazines and the leading newspapers. This will be the largest campaign ever launched in this market and it will run throughout the year.



Consumer trial offer

Over 13,000,000 advertisements will carry a 1/- coupon, which will entitle your customers to one 1/6d packet for only 6d. We will redeem this coupon from you under a simple and generous arrangement. Make sure your assistants know all about this offer. The offer is valid only in the United Kingdom until 31st October, 1955.

Full details and 3 FREE sample packs in a special display outer have been mailed to you—if you did not receive these, please let us know.

LIL-LETS TRADE MARK
o.b.
A LILIA PRODUCT

For full details write to: SMITH & NEPHEW LTD., WELWYN GARDEN CITY, HERTS

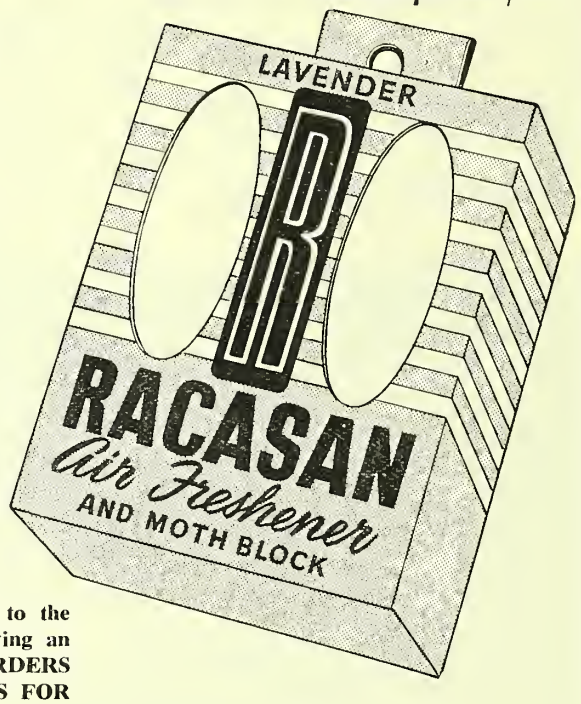
ANOTHER RACASAN

DOUBLE

discount offer!

From March 14th to April 9th only

Retail price 1/3d.



As in previous years we are making a SPECIAL SPRING BONUS OFFER to all Stockists.

The RACASAN Air Freshener is now an essential item in the modern home, for discerning housewives have quickly appreciated its many advantages. It represents better value for money—the fragrance lasts longer—it is available in choice of six perfumes—and keeps clothes and fabrics free from moths, without any lingering "moth-ball" smell.

Regular Advertising in biggest-circulation women's journals will be continually keeping housewives "Racasan-conscious."

From March 14th to April 9th only, in addition to the usual trade discount of 33⅓ per cent., we are giving an EXTRA discount of 5 PER CENT. ON ALL ORDERS FOR 3-DOZEN or 7½ PER CENT. ON ORDERS FOR 6-DOZEN.

RACASAN, LTD., ELLESMERE PORT, CHES.

MAIL THIS COUPON TODAY

Please arrange for me to have immediately ..... dozen Racasan Air Fresheners.

Name .....

Address .....

.....

Usual Wholesaler .....

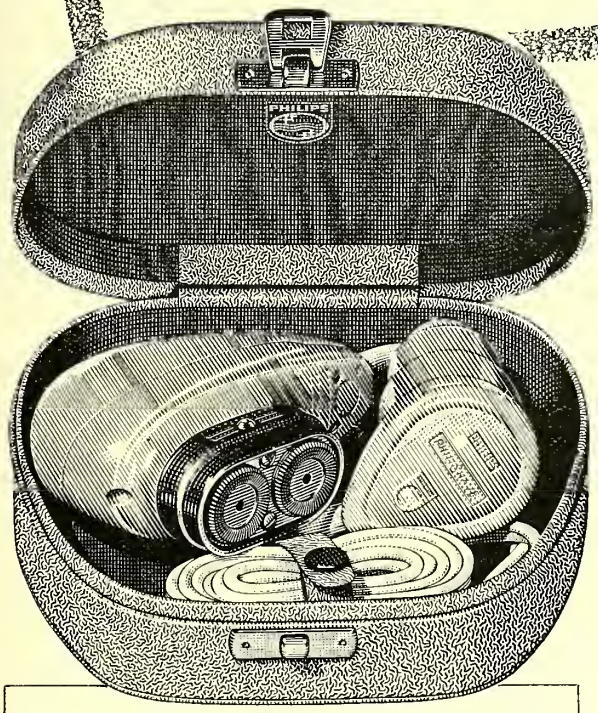
.....

an assurance for YOU and your customers—

Serial No. ★ 3198
BRITISH GOOD HOUSEKEEPING INSTITUTE GUARANTEES
REFUND OF MONEY OR REPLACEMENT IF NOT IN CONFORMITY WITH THE INSTITUTE'S STANDARDS

awarded to the RACASAN AIR FRESHENER

The world's top-selling dry shaver—the rotary action PHILISHAVE



Complete with Case or Pouch

£7•9•3 *(TAX PAID)*

The dry shaver that's *always* in demand — that's the world-famous Philips 'Philishave'. Why? Because of its unique advantages — its twelve rotary blades, for instance, which shave every hair right down to skin level. Because of its wonderfully smooth action, which gives a superlatively smooth shave. Because of the world-trusted Philips name — known everywhere. Yes, be sure to stock the 'Philishave'! Every man wants one!

LOOK AT THESE SALES POINTS!

- **Gentle skin-stretch action ensures a really close shave—in comfort.**
- **Rotating blades shave hairs at all angles, long or short.**
- **Special hair chamber traps every shaved hair.**
- **Moulded to the shape of the hand for easier holding, and easier shaving, at all angles.**
- **Self-sharpening blades.**
- **Easy to clean.**
- **Plugs in anywhere—Dual Volt AC/DC 110-130 and 200-250 volts.**
- **Supplied in case or pouch—perfect for travelling.**

PHILIPS

PHILIPS ELECTRICAL LTD.

CENTURY HOUSE
SHAFTESBURY AVENUE, LONDON, W.C.2

RADIO AND TELEVISION RECEIVERS · GRAMOPHONE RECORDS AND RECORD PLAYING EQUIPMENT · LAMPS, ETC.

(PS575)

big news for every retailer

Here's news of a leading summer line that's going to bring you unexpected profits NOW!

In just two weeks, the first of over 50,000,000 advertisements will launch the biggest-ever, nation-wide campaign for Jaffajuce, the famous orange drink which contains over 80% pure orange juice with its vital Vitamin C .
The increasing demand for Jaffajuce orange is due to the public's recognition of it as a *quality* product, and the health campaign which will break in a few days will stress the benefits of Jaffajuce in winter to every household in the land.
Alongside, the key space of the campaign, a half page in 2 colours in the "Daily Express" is reproduced in miniature in black and white. This vast and influential "shop window" with over 11,000,000 shoppers, will be the dominant feature of the advertising and will be supported by large spaces in other leading National Dailies, Sundays and Weeklies, as well as a host of provincial newspapers.

SPECIAL BONUS OFFER
1/- PER DOZEN

Attractive display material *is available for your counters and will enable you to take your full share of this all-important campaign. The special bonus terms of* ***1/- per doz.*** *will be available* ***on every*** *order executed during* ***January, February and March*** *making it trebly profitable for you.*



This is a reproduction of the spearhead of the Jaffajuce campaign—

½ Page in two colours in the

DAILY EXPRESS with over 11,000,000 readers

This forceful advertising also appears in the leading National Dailies and Sundays, London Evenings, big circulation National and Women's Magazines, and important provincial newspapers.

GOLD CUP

Jaffajuce

SWEETENED ORANGE

Trade enquiries to:

BOVRIL LTD · 148-166 OLD STREET · LONDON · E·C·1

MILLIONS OF BUBBLES

The amazing success of 1954, SORELLA FOAM BATH, sold over a MILLION PACKETS in the past few months — REPEAT ORDERS following REPEAT ORDERS everywhere — *without advertising.*

Encouraged by this response from the public we are launching a powerful advertising campaign for four months, starting in March.

MILLIONS OF ADVERTISEMENTS

We have chosen the most prominent big-circulation women's magazines with over 40 million readership and well-designed advertisements will *sell* SORELLA FOAM BATH, sending readers to your shop asking for the most attractive line for years.

MILLIONS OF SALES . . .

At 8d. a packet it will sell repeatedly. Be ready for the instant demands created by the advertising, order from your wholesaler or write to us for supplies and showcards prior to the advertising. Lose no time — STOCK SORELLA FOAM BATH NOW.



• **TRADE PRICE:** *42/8d. per gross packets plus 31/3d. purchase tax.*

JEAN SORELLE LTD., LONDON, N.4. Phone: ARChway 2771 Grams: PROMELLA, LONDON

1516

...now even better!

VACCO TEA FLASK

with the NEW **POLYTHENE POURER**

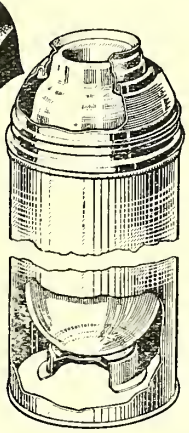


Serial No★2174
BRITISH
GOOD HOUSEKEEPING INSTITUTE
GUARANTEES
REFUND OF MONEY OR REPLACEMENT IF NOT IN CONFORMITY WITH THE INSTITUTE'S STANDARDS

PERFECT POURING with this new *integrally* fitted POLYTHENE POURER—non-drip, hygienic in use, easily kept clean.

POLYTHENE STOPPER
—non-contaminating, durable and firm-gripping.

WATERTIGHT SEAL
between bottle and shoulder. The vertical interlocking joint prevents liquid seeping into canister.



RESILIENT MOUNTING—the bottle is *suspended* between rubber-lined base and polythene collar. This means shock-resistance and ensures MAXIMUM PROTECTION.

Capacity: 16 fl. ozs. Milk Bottle 3 fl. ozs. extra.



RETAIL PRICE **7/6**

ORDER TODAY 67/6 A DOZEN

MORE NATIONAL ADVERTISING
MORE FREE DISPLAY MATERIAL
LINK UP AND SELL!

VACCO LIMITED, GROSVENOR GARDENS HOUSE, GROSVENOR GARDENS, LONDON, S.W.1

G

PENICILLIN PREPARATIONS

- LOZENGES
- TABLETS
- OINTMENTS
- AIDS TO DISPENSING OUTFITS for CREAM and DROPS

Price List on application

MANUFACTURED BY

Richard Daniel & Son Derby. LTD.

MANSFIELD ROAD, DERBY
And at GROSVENOR ST., ASHTON-U-LYNE

Tel.: 48266 (4 lines)
Tel.: 2816 (3 lines)

from a trickle to a flood...

Diuromil

The largest and fastest sales of all effervescent salts — especially compounded for the relief of

RHEUMATISM, GOUT,
LUMBAGO, SCIATICA, FIBROSITIS



Every week, Diuromil advertisements (a nation-wide Press Campaign) are seen and read by millions. Slides are seen on the screens of Theatres up and down the country. The public are loud in their praise and the news of benefit and relief is passed on from one to another. This, plus medical support and recommendations, turns trickles into floods.

Help us to help you — display DIUROMIL on counter or in window.

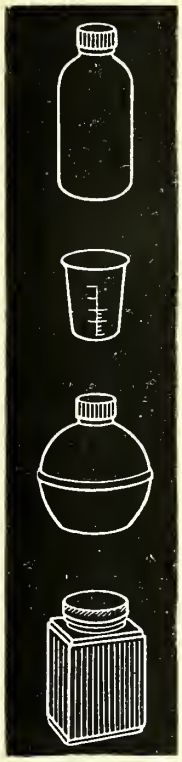
& P.A.T.A.

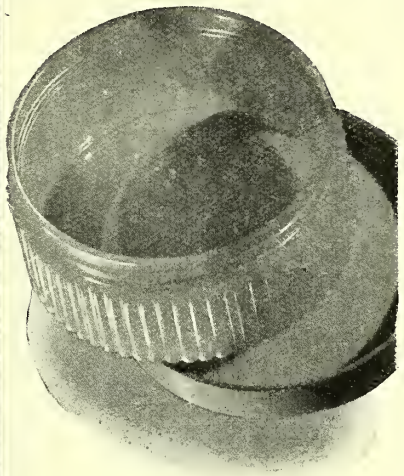
Very attractive show material on request.

PHARMAX LIMITED, GRAVEL HILL, BEXLEYHEATH, KENT

NOW - transparent based

POLYTHENE JARS





Here is a clear base jar with NO seam, tool or injection moulding mark, which can be supplied in 1 to 3 oz. capacities from stock or to your own design.

STANDARD LINES

We can supply Polythene bottles and jars in a large variety of shapes and capacities—narrow or wide mouths, plain, fluted or frosted—printed or plain—puffer, vapouriser, dispensing spouts or side sprays, all with standard threads—prices are competitive—delivery is immediate from stock lines which are in continuous production.



CUSTOMERS' SPECIALS

Our own special method of tooling and production makes for exceptionally low tooling costs and so individual customer design becomes an economic proposition with an excellent delivery.

SKY LON

Regd. Trade Mark

FIBRENYLE LTD.

157 DUKES ROAD · LONDON · W.3

ACORN 5073/4

THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 163 March 12, 1955 No. 3916

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The CHEMIST AND DRUGGIST

Volume 163 MARCH 12, 1955 No. 3916

Memorandum to Hospitals

PROMPT ACTION ON LINSTEAD REPORT

A MEMORANDUM on the Linstead report (see *C. & D.*, March 5, p. 256) has been circulated by the Ministry of Health to Regional Hospital Boards, Hospital Management Committees and Boards of Governors.

The memorandum lists the eleven points given in the report on the scope of hospital pharmacy. It states that extraneous duties should be allotted to the pharmaceutical department only when there are the strongest reasons for not making other arrangements and when the essential work of the department is not thereby impaired. The pharmaceutical department should be an entity under the charge of a pharmacist. The memorandum repeats the passages in the Linstead report on access by the pharmacist to the governing body. In small hospitals, in which the employment of a full-time pharmacist would not be justified, a pharmacist (normally one on the staff of the group) should be made responsible for the pharmaceutical service in the hospital. Boards and committees should examine the possibilities of organising group pharmaceutical services and even a service common to several groups. Each Regional Hospital Board should consider appointing a pharmaceutical advisory committee. That committee should choose a pharmacist to advise the Board on day-to-day problems. In view of the shortage of pharmacists they should be employed only in positions which require their skill and training. It is not necessary that each pharmaceutical department should have a full-time pharmacist or representatives of each of the following grades on its staff: Dispensing assistant, skilled hand, unskilled porters, cleaners and clerical assistants. In the selection of staff the pharmacist in charge of the department should normally have the decisive voice.

On manufacture, boards and committees are advised to see whether arrangements are as economical as they might be and whether group or multi-group arrangements could be usefully introduced. Where manufacture is being introduced for the first time, the estimated cost should be examined with proper allowances for overhead costs. Expensive new apparatus should be acquired only after the extent to which it would be used has been estimated. Boards should consider whether economies in expenditure on perfusion fluids may be secured by arranging for production in their own or by neighbouring groups. The pharmacist should be encouraged to undertake investigation and inquiries into matters "which are of profit and interest to the hospital service generally." The main recommendations of the Linstead report on accommodation are repeated, and it is suggested that, where they can be implemented quickly and without any considerable expenditure, they should be put in hand, for they will "undoubtedly increase the efficiency of the department." The Linstead report's conclusions on "matters of organisation relating to liaison between the pharmaceutical department and the nursing staff" are repeated.

Whitby Potash

I.C.I. ABANDON RECOVERY SCHEME

AFTER seven years of work, involving an expenditure of over £400,000, the board of Imperial Chemical Industries, Ltd., has decided not to proceed with the development of the North Yorkshire potash deposits. It has become clear, the board states, that the winning of the deposits would present difficult problems which could only be solved by an organisation familiar with the special deep-mining techniques involved. The total number of boreholes sunk was eleven—the original one sunk by the D'Arcy Exploration Co. when oil prospecting in 1938, six sunk by I.C.I., and four by Fisons, Ltd., who associated themselves with the exploration from 1948 onwards. I.C.I. converted one of its boreholes into an experimental brine well and carried on trials for over sixteen months in an effort to recover potash by solution of the deposits. The brine well experiment proved conclusively that potassium chloride could not economically be won in that way because no means could be found to produce a sufficient concentration of the potassium salt, due to the nature of the sylvinite, which consists of two salts of different solubility (potassium and sodium chlorides). Fisons, Ltd., have not yet come to any decision as to what they will do in the future.

"No Confidence" Protest

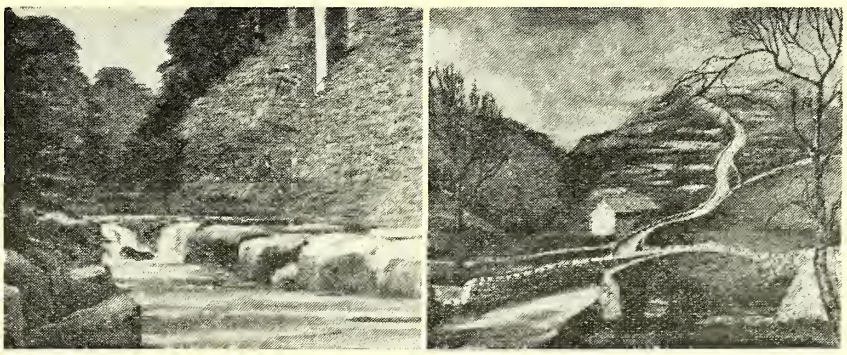
BLACKBURN DOCTORS HIT AT MINISTER

FORTY-SIX Blackburn doctors have signed a leter published in the *British Medical Journal*, March 5, stating that they "have no confidence whatsoever in the present Minister of Health." The letter refers to "flagrant overriding" of a doctor's clinical responsibility for his patient by a lay official "consistently condoned" by the Minister. The protest arises from an episode during the closing of Springfield Maternity Home, Blackburn, on January 8, 1954, by the Blackburn and District Hospital Management Committee. It states that the secretary of the committee visited the wards at 8 p.m. on January 7 and announced that patients had the option of being transferred next morning to a maternity home seven miles away or of being returned to their homes.

First-Aid Open Contest

PONDERS END VENUE

THE Casualties Union has issued entry forms for its Open Competition in Diagnosis and First Aid to be held at the new gas works, Ponders End, Middlesex, on Sunday, October 2, with eliminating rounds on Sunday, July 10. The winner receives the Buxton trophy.



PAINTINGS SHOWN AT PARIS: Two oil paintings, "A Yorkshire Glen" and "Gordale Bridge, Yorks," each 15 x 12 in., exhibited by Mr. G. Greenall, M.P.S., Harrogate, at the *Salon des Medicins* art exhibition, Paris, France, 1955. Mr. Greenall is exhibiting for the fourth successive year.

The competition is a team contest, and the teams of six may be men, women or mixed. Entries must reach the Competition Secretary, Casualties Union, 8 Woodcote Park Avenue, Purley, Surrey (from whom the entry forms may be obtained) not later than March 21.

Brussels Exhibition 1958

B.O.T. MESSAGE TO INTERESTED FIRMS

BRITISH firms who are interested in the possibility of exhibiting in the Brussels Exhibition in 1958 are asked to let the Board of Trade know by April 30 of this year. This will not commit them to taking part in the exhibition; definite booking of space will not be asked for until late 1956 or early 1957. But by June 30 of the present year the Board of Trade needs to have some idea of the total amount of space likely to be required by British industry, so that the Belgian authorities can allot the United Kingdom a sufficiently large area in laying out the grounds. The exhibition will be held from April 15 to October 15, 1958. The Belgian authorities propose to offer awards of merit for competition between individual manufacturers. But they have also stipulated that non-Belgian manufacturers wishing to compete for such awards must be accommodated within the total area allotted to their country of origin. A rough preliminary estimate (at current prices) of the cost of space including a shell stand is £3 per square foot. Clearly the size of this industrial pavilion will depend on the number of firms wishing to take part and on the size of their stands. Firms interested in the matter are accordingly asked to get in touch as soon as possible with the Exhibitions Branch of the Board of Trade, Lacon House, Theobalds Road, London, W.C.2. The Brussels Exhibition of 1958, the first international exhibition since the New York World Fair in 1939, will be the largest ever held in Europe and will occupy an area of 430 acres about 4½ miles from the centre of the city in and around the Parc du Centenaire, the site of the previous Brussels Exhibition in 1935. The Belgian Government, who are staging the Exhibition, expect 20/25 million visitors during the Exhibition's six-month duration.

Pharmaceutical Society

REGISTRAR'S REPORT FOR 1954

THERE were twenty-five cases in which proceedings were instituted during 1954 under the Pharmacy Acts, according to the report for that year of the registrar of the Pharmaceutical Society. One of those was concerned with an illegal advertisement, the rest with illegal sales. Two cases undertaken against pharmacists under the Penicillin Act, 1947, were concerned with illegal sales. Of the twenty-seven cases dealt with, seven concerned registered pharmacists, eleven concerned unqualified persons, five concerned corporate bodies who were authorised sellers of poisons, and four concerned corporate bodies not authorised sellers. There had been an increase of 197 names on the register. At December 31, 1954, there were 26,564 names on the register. The number of superintendents to bodies corporate was 3,211, and of authorised sellers of poisons, 15,313. There were 4,153 branch shops. During the year the Society's inspectors visited 13,356 authorised sellers and 1,770 listed sellers. The number of candidates who passed the Intermediate examination in England and Wales was 206 and in Scotland 165, and in the Pharmaceutical Chemist Qualifying examination there were 361 passes in England and Wales and 217 in Scotland. There were 921 students registered during the year.

Armoured-glass Bottles?

DRAWBACKS TO THEIR USE

IF armoured-plate-glass was used for bottles and containers, repercussions of a breakage might be far more serious than with ordinary glass because it would shatter into thousands of small pieces, said MR. F. J. HURLBUT (glass engineer, United Glass Bottle Manufacturers, Ltd.) in an address at Liverpool recently. He was replying to a question why, as the main drawback to bottles was that they were easily broken, steps were not taken to devise safety glass containers. Mr. Hurlbut said theoretically it was possible to use armoured-plate-glass for bottles, but on account of the high cost it was out of the question. Asked whether the practice, adopted by certain manufacturers, of having ridges on bottles to provide a good grip weakened the bottle, Mr. Hurlbut said he did not think that those ridges provided a better grip or that they served any useful purpose, except perhaps from the standpoint of sales appeal. In some cases they did weaken the bottle structure.

IRISH NEWS

Ulster Chemists

MEETING OF ASSOCIATION EXECUTIVE

AT the March meeting of the Executive Committee of the Ulster Chemists' Association held in Belfast on March 1, Mr. W. H. Boyd (president) in the chair, the following were elected to membership:—Messrs. S. McLoughlin, L.P.S.I., 381 Woodstock Road, Belfast; W. C. Magee, Main Street, Beragh; M. J. McAteer, Melmount Pharmacy, Strabane. A number of employees, whose applications were approved by the Associates' Committee at a previous meeting, were elected to associateship. Consideration was given to complaints of chemists keeping open shop after the agreed closing hour, thereby endangering the rota service, and a subcommittee was set up to investigate. A formula and sample of a general antidote for poisons submitted by a hospital pharmacist, received attention. It was agreed that that would prove useful in the home, and the secretary was instructed to seek the opinion of the Committee interested in the prevention of accidents in the home before taking further action.

Present at the meeting were: Messrs. J. C. Acheson, H. S. Anderson, J. A. Brown, J. Caldwell, H. G. Campbell, H. W. Gamble, T. A. Gibson, C. L. Gordon-Rattie, W. L. McDonnell, R. A. McEwen, W. J. Moffett, J. Paul, C. A. Quinn, W. J. Rankin (treasurer). Apologies for absence were received from Misses C. Abernethy and C. E. Culbert, Messrs. R. Gibson, W. S. Hall, J. McGregor, W. R. McNabb, M. C. Mooney, W. H. Mulholland, P. R. W. Shinner, A. Steede, A. Templeton.

Chemist Debaters

EDUCATIONAL PROBLEMS DISCUSSED

SOME problems of university education were discussed in a paper read by Mr. M. J. Cahill, M.P.S.I., at the annual meeting of the Chemists' Debating Society, held on February 11, Mr. P. F. McGrath (vice-president of the Society) in the chair. MR. CAHILL said that there appeared to be a blatant disproportion between the output of medical graduates and the national requirements for new doctors. There was an obvious need for a campaign to divert parents from their usual viewpoint that having a doctor in the family was something of great prestige value. SENATOR ROGER MCHUGH (lecturer in English, University College, Dublin) said that Ireland was producing too many doctors and there was a very critical time coming in the affairs of medical graduates. The University was producing far too few agricultural graduates, and the University should be opened to people more widely through a national scholarship system. MR. SEAMUS MURPHY (chairman, National Action) said that the future of the Irish Universities lay in the training of graduates in agriculture. He paid tribute to the work of the National University in promoting extra-mural courses, but thought that they did not go far enough to meet the demand. Mr. M. O'Brien was elected auditor for the ensuing year.

Irish Golfers

ANNUAL MEETING OF SOCIETY

MR. Peter Fullam, Naas, co. Kildare, was elected captain of the Irish Chemists' Golfing Society at the annual meeting of the Society held in Dublin recently. Mr. C. A. Collis (outgoing captain) presided. Reports were presented by Messrs. E. A. MacManus (treasurer) and Phil Fahey (secretary). They showed that the Society was in a flourishing condition, both financially and in membership. MR. COLLIS, in his address, thanked the members for the excellent way in which they had turned out to all fixtures during his captaincy, and expressed his appreciation to the secretary, treasurer and committee for the able support they had given him at all times. Messrs. Fahey and MacManus were unanimously re-elected secretary and treasurer, respectively. It was agreed that the three-day annual outing for 1955 should be held at Rosslare, Wexford, at the end of May. The first outing of the season would be held at Carlow golf club on April 24.

Animal Medicines

BILL TO BE INTRODUCED IN DAIL SOON

DURING a debate in the Dail on March 2, MR. JAMES DILLON (Minister for Agriculture) said that a Bill dealing with medicines for animals would be introduced "in the reasonably proximate future." MR. T. WALSH (a former Minister for Agriculture), welcoming a Bill dealing with fertilisers, feeding

stuffs, and mineral mixtures, said that he thought that the Minister would have taken the opportunity to include many "cure-alls" and medicines that the farmer was asked to buy. MR. DILLON, replying, said that he agreed that there should be power to prohibit medicines and remedies of which there was satisfactory proof that they were harmful. He would not wish, however, to prevent a farmer from buying a favourite remedy of his own even if experts advised that it was absolutely useless. The manufacture and purveying of harmful compounds must, however, be prevented.

OVERSEAS NEWS

PAKISTAN

Pharmaceutical Importers Meet

AT the sixth annual meeting of the Pharmaceutical Importers Association Pakistan, Ltd., held recently, the following officers were elected for 1955-56: *President,* Mr. A. A. Watson, M.P.S. (Spencer & Co. (Pakistan), Ltd.); *Vice-president,* Mr. L. A. H. Dickens, T.D. (Boots Pure Drug Co. (Pakistan), Ltd.); *Secretary,* Mr. M. P. Rustomjee (Service & Sales (Pakistan), Ltd., P.O. Box 4764, Karachi, 2); *Treasurer,* Mr. N. P. Mistry (Shaw Wallace Pakistan, Ltd.).

UNITED STATES

A New Alkaloid of Rauwolfia

AT Columbia University in New York on January 12, Professor E. Schlittler gave a lecture on the alkaloids of rauwolfia. The main part of his lecture centred on deserpidine, a new alkaloid of *Rauwolfia canescens* which Prof. Schlittler's research team isolated in the Ciba research laboratories during the summer of 1954. The structure of the new alkaloid was soon elucidated by the same team of research men. Deserpidine is closely related, chemically and biologically, to reserpine. Whether the new active substance will prove of practical value in therapy has yet to be ascertained.

NEWS IN BRIEF

LONDON University has elected Queen Elizabeth the Queen Mother its Chancellor.

A FILM on the industrial uses of Terylene was shown in the television programme "Science Review," on February 22.

A CONCERT of orchestral and choral items was given in Nottingham recently by members of four musical societies of Boots, Ltd.

STUDENTS from the School of Pharmacy, University of London, visited the headquarters of Glaxo Laboratories, Ltd., Greenford, Middlesex, on March 2.

AT the inaugural meeting of the Midlands section of the Society for Analytical Chemistry held in Birmingham on February 22, the following officers were elected: *Chairman,* Mr. J. R. Leech; *Vice-chairman,* Dr. R. Belcher; *Treasurer,* Mr. F. C. J. Poulton; *Secretary,* Mr. G. W. Cherry, 48 George Frederick Road, Sutton Coldfield, Warwicks.

TOPICAL REFLECTIONS

By Xrayser

The Linstead Report

It is refreshing to find that the voice of the dissenter did not go unheard in the findings of the Linstead Committee on hospital pharmaceutical service, and, as frequently happens, there is much to be said for the reasoned view of the individual who finds himself unable to endorse in full the majority opinion. I am, myself, in something of a quandary in regard to the question of "substitution," i.e., the recommendation to give general authority (in hospitals) to dispense the official equivalent of proprietary preparations in list A of the National Formulary. As Mr. Sparshott points out, such a course is foreign to the instincts of any pharmacist, and that quite irrespective of the code of ethics. All my training, and my respect for accurate interpretation, support Mr. Sparshott. I agree also with Mr. Dobson in his contention that such permission in hospital practice would inevitably introduce dual standards, both for the patient and for the pharmacist. It is evident, from an answer to a question in Parliament (p. 251) that there is no intention of sanctioning such substitution in general practice, and it is difficult to see how, in view of the Minister's answer, the recommendation contained in the Linstead report can be carried into effect. But, despite my instincts, my training, and the traditions of the profession, I would like to see some steps taken which would make it unnecessary for me to have to procure yet another standard drug under yet another name when I already stock two or three identical preparations. If the multiplicity presents a problem to the hospital authorities, it is equally embarrassing to the contractor pharmacist. A look at the shelves of any contractor today will suffice to show how much his instincts have cost him in unused surpluses.

Dispensing Assistants

Dealing still further with the dissenters, there is quite a marked reluctance on their part to ignore the feeling of the profession on the subject of dispensing assistants, as expressed at the annual meeting in 1953. Mr. Gilmour is emphatic in stating that the question is not sectional, and that the recognition of the status of the dispensing assistant in hospital cannot be dealt with in isolation. Emphasis is given to his point if read in conjunction with your leader on the health centre at Edinburgh. The position is certainly unique, but there is no indication that future development may not envisage an extension of that kind of service. Meanwhile, any decision in regard to hospitals could hardly be other than applicable to staffing in a health centre, and, since the Sighthill centre is in contract with the local Executive Council, the implications are obvious. Mr. Gilmour is right in contending that the question demands consideration as a whole. Sighthill may be found to be the key to many doors.

Diplomacy

We have all been faced, from time to time, with a dilemma. There, on the public side of the counter, is some unfortunate patient who has just presented a prescription which he hopes to obtain with that reasonable promptness which is a part of our contractual obligations with the local Executive Council. And here, in our hand, is a prescription which fails, owing to some error of omission or commission, to deliver its message to the pharmacist. The knowledge that the prescriber is by now out on his rounds, and that no means of clearing up the difficulty is foreseeable for some hours, calls for all the tact and skilful evasiveness which have led some men to high positions in the diplomatic service. Nothing must be said which will suggest that the prescriber is at fault, nor must there be any room for the impression that the pharmacist is in any way inadequate. Dare we hope that the scheme for the teaching of pharmacy to medical students at University College Hospital, outlined by Mr. T. D. Whittet on p. 263, will extend over the country as a whole, and will result in fewer of those delicate situations arising?

NORTHERN IRELAND HEALTH SERVICES BOARD

Discussion on Surgery on Chemist's Premises

AT a meeting of the Northern Ireland General Health Services Board in Belfast on February 23, the Board's attention was drawn to the strong views held by the pharmaceutical profession against doctors having surgeries in premises occupied by a chemist. The matter was raised on a minute of one of the Board's committees by MR. H. W. GAMBLE, who said that unless there were exceptional circumstances the Board should not approve of any such arrangement. MR. G. D. STEWART (secretary of the Board) explained that the doctor concerned did not intend to hold surgeries at the premises but to use them solely as a residence. There was a separate entrance and the premises did not connect with those of the chemist. The new residence was within the doctor's area of practice. The doctor had been informed that the Board's consent was given on the condition that the premises would not be used as a surgery.

The Board's executive committee agreed to await the outcome of proposals for the provision by chemists of an improved oxygen supply service sent by the Ministry of Health and Local Government to the Local Pharmaceutical Committee before discussing the matter further.

The Drug Pricing Committee considered a complaint from a chemist that another chemist in his area was open for dispensing on Boxing Day morning although not on rota duty. It was agreed to refer the matter to the Local Pharmaceutical Committee.

It was agreed that the National Formulary, 1955, should be applicable to Northern Ireland from May 1 and that doctors be requested to cease using old formulas. It was decided that the timing of distribution to doctors and chemists should be left in the hands of the Board's pharmacist, in consultation with its medical adviser, and the pharmacist was instructed to enclose with each copy a reference to the principal additions, deletions and amendments.

MR. W. BIRNIE (assistant secretary of the Board) stated that so far no satisfactory basis had been agreed for arrears in payments of prescriptions. The Committee requested production of comparable figures of prescribing statistics between Great Britain and Northern Ireland for its next meeting.

DR. M. F. LESLIE inquired if Diaparene chloride could be regarded as a drug forming part of pharmaceutical services, and after consideration the Committee instructed the pharmacist to obtain further information regarding the product and referred the matter to the Medical Advisory Committee of the Board.

BRANCH AND ASSOCIATION MEETINGS

WEST LONDON

Reactions from Hormone Creams

THE use of surface-acting hormone creams was liable to cause unforeseen reactions, especially when they were suddenly discontinued, said DR. F. HARTLEY, addressing a meeting of the Western [London] Pharmacists Association on February 9 on "Sex Hormones." In a general survey of the endocrine glands, Dr. Hartley dealt chiefly with the sex hormones. He indicated the correct selection and dosage of the oestrogens, in abnormalities in uterine function. The use of androgens during disturbances of the menopause and after, was described and the speaker emphasised the amount of research still to be done to evaluate the use of androgens in the treatment of cancer. He said that in the aged, androgens assisted in the breakdown of proteins and in preventing the removal of calcium from the bones which was the cause of brittleness of bones in elderly people.

DURHAM

Health Service Topics

GENERAL National Health Service topics were the subject of an address given to the Durham County Branch of the Pharmaceutical Society recently by Mr. G. H. M. Graham, M.P.S. MR. GRAHAM said that the major problem at the moment was the joint inquiry into dispensing costs. The response to the National Pharmaceutical Union request to provide figures was only in the region of 60 per cent., but it was thought to be sufficient to give a true indication of the costs situation. A proportion of the figures would be spot checked to see if the figures could be accepted as a true picture. During the discussion that followed, Mr. Graham said that the number of cases where packets of cotton-wool supplied had been found to be underweight, might be due to the wool being cut into size, not weight. A member suggested that a check should be made at the factory.

EDINBURGH

Qualification—What Then?

A SERIES of short papers on different fields of work open to the pharmacist, was read at a recent meeting of the Edinburgh and South-eastern Scottish Branch of the Pharmaceutical Society. MR. W. F. STEWART said retail pharmacy still offered the greatest opportunity, with its varied round and satisfaction of personal service to a public which often expected as good advice to be dispensed on domestic problems as on its ailments. The only way of acquiring the knack of dealing with the public was through experience. The apprenticeship of former days gave that in a leisurely way. The speaker said he was dismayed when the new system of a post-graduate year of training came into force, but he was now firmly convinced that the new educational syllabus was producing the type of pharmacist needed today. Setting up a business involved capital as well as acumen. The minimum cost of fittings alone for a small shop was in the region of £300. Maintenance of good relations with nearby colleagues was important, and the duel of the closing times should be a thing of the past. On the subject of manufacturing pharmacy, DR. RITCHIE said that in research, production, packaging and marketing the pharmacist played a vital rôle. Aspects of the work of the pharmacist in the manufacturing laboratory were illustrated by a series of coloured slides showing stages in the extraction of crude drugs and the work in the control laboratory. Hospital work was more pharmaceutical than retail pharmacy, said MISS D. I. L. LOCKER, but it was more routine. She did not hold out rosy prospects for recruitment to a service which was "near breaking point with a basic salary rate linked with 1933." MR. A. SCOTT described his thirty years as a wholesaler's representative as being the happiest he had known with monotony unknown, more leisure and better health. Two qualifications were to be a golfer and a bowler. For anyone with leanings towards physiology and pharmacology the work of a medical representative would be satisfying, said MR. J. B. DUNNETT. The medical representative had to be able to give the doctor full information on dosage, side effects, clinical tests, etc., of any of the preparations that were marketed by his own firm.

LIVERPOOL

Antibiotic Therapy

SOME recent aspects of antibiotic therapy were discussed by Dr. D. D. Macdonald (Parke, Davis & Co., Ltd., Hounslow) in a lecture which he gave to Liverpool Chemists' Association on January 20. The lecture was illustrated by slides and a film, with sound commentary, on "Phagocytosis." Explaining the therapeutic range of antibiotics, DR. MACDONALD dealt with penicillin, streptomycin and chloramphenicol. The drawbacks of streptomycin therapy, he said, were its toxicity, and the problem of resistance. Preparation of dihydrostreptomycin by catalytic reduction of parent substance was an attempt to reduce toxicity, but unfortunately it had not lived up to expectation. Chloramphenicol had a small molecular size compared with the other antibiotics. That perhaps explained why it was so effectively absorbed from the gastro-intestinal tract and why it would penetrate well into tissues and across barriers that were impermeable to many other drugs, e.g., placental and blood-brain barriers. Following the elucidation of the structure of Terramycin the formula for aureomycin was disclosed and they were both found to be derivatives of the parent substance, tetracycline, which had itself more recently been introduced to medicine. On account of the close chemical relationship between the three antibiotics they had a similar therapeutic range and a similar pharmacology. Some of the most valuable aids to antibiotic therapy had been contributed by the microbiologist. The performance of the antibiotic in the

test tube was a valuable guide to the clinician. The *in vitro* test was becoming important as a basis for the laboratory control of antibiotic therapy. The microbiologist had, for many years, been able to give some assistance to the clinician, but that was the first time in medicine that a large measure of control could be exercised by the laboratory. The impregnated disc technique was gaining in popularity and in proper hands it was a useful guide to treatment. But the microbiologist by that new technique had not only been able to help the physician in his choice of an antibiotic; he had been able to keep a watchful eye on one of the greatest problems in antibiotic therapy today. That was the development of resistance. More than one authority had warned that, in the not too distant future, it might be impossible to discover new chemotherapeutic drugs as quickly as resistant strains of micro-organisms became established. In recommending a general scheme of dosage for an antibiotic, it must be taken into account that there was a considerable variation in the sensitivity of the organism to the antibiotic, in the site of the infection and its accessibility to the antibiotic, in the individual absorption of the dose and in the seriousness of the patient's symptoms. A standard dosage schedule had to cover all such eventualities and was bound to err on the conservative side.

MIDDLE-EAST TRADE

Improved outlook in Egypt

SPEAKING in London on March 7, MR. G. C. R. ELEY, the leader of the British Trade Mission which visited Egypt, the Sudan and Ethiopia recently (*C. & D.*, February 12, p. 160), said that those countries should be able to absorb an increasing volume of British goods. In Egypt he thought that there was a desire to get back to the business relationship that existed before the political unrest of the last few years. Conditions had changed not only in the buying habits of the population but in the advertising practices of our competitors. It was essential that British manufacturers should go out, particularly to Egypt and the Sudan, to assess the new conditions for themselves. Ethiopia was in a sound financial position and in the next ten years he believed that country would develop considerably. Asked about the sterling import entitlement account system in Egypt, Mr. Eley said the Egyptians were anxious to move away from the system but he did not know when they would abandon it although some easing in the position had taken place. The team had stressed how that system discriminated against sterling purchases. MR. A. E. J. GAWLER (deputy overseas controller, Imperial Chemical Industries, Ltd.), another member of the team, said there should be an increase in the demand for pharmaceutical goods and medical instruments in Egypt as that country was embarking on a large expansion programme for hospitals. There was also a scheme for the larger villages and all towns to have a "welfare" centre. In reply to another question Mr. Gawler said Ethiopian government tenders for drugs had called for United States Pharmacopœia standards in the past but the authorities had told them they would accept the British Pharmacopœia standards also. The requirements for agricultural chemicals and insecticides were fairly well covered and Great Britain had a good share of that business.

Mr. Eley, who is chairman of The British Drug Houses, Ltd., said that the team would publish their report as soon as possible.

REPORT ON ARSENIC IN FOOD

Revised recommendations for limits

THE Food Standards Committee Report on Arsenic published on March 9 makes revised recommendations for limits for arsenic in foods and recommends that statutory effect should be given to the limits now proposed. The Minister of Food is willing to consider any further representations that interested parties may wish to make. They should be addressed to the Assistant Secretary, Food Standards and Hygiene Division, Ministry of Food, Great Westminster House, Horseferry Road, London, S.W.1, not later than May 31.

Account is taken in the present report of previous representations received from trade and other interests following publication of an earlier report by the committee's metallic contamination subcommittee (see *C. & D.*, September 22, 1951, p. 386).

The limits previously recommended for beverages ready-to-drink and foods not otherwise specified remain the same, 0·1 parts per million and 1·0 p.p.m. respectively, but those limits calculated as arsenious oxide are changed to 0·13 and 1·3 p.p.m.

The recommended limit of arsenic for solid pectin (all grades) has been altered from 2·0 to 5·0 p.p.m., and the limit of arsenious oxide changed from 2·6 to 6·6 p.p.m. For chemicals (other than chalk) used as ingredients or in the preparation or processing of foods, a limit of 2·0 p.p.m. of arsenic and 2·6 p.p.m. of arsenious oxide is suggested.

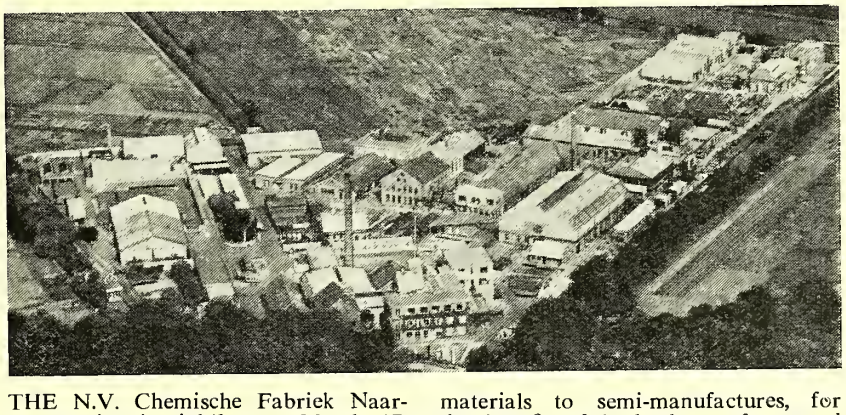
The report recommends that chalk (creta) should have an arsenic limit of 4·0 p.p.m. and an arsenious oxide limit of 5.3 p.p.m.

The arsenious oxide limit for dried hops, dried liquorice extract, edible gelatin and liquid pectin have changed from 2·7 to 2·6 p.p.m.

The report suggests that in any Order which may be issued there should be a proviso making it a defence to show that the presence in a food of arsenic in excess of 1 p.p.m. is due solely to the use as a substantial ingredient of a scheduled item (or items) conforming to the requirements of the schedule.

A DUTCH CHEMICAL JUBILEE

Fifty years of N.V. Chemische Fabriek Naarden



THE N.V. Chemische Fabriek Naarden attains its jubilee on March 17, and the personnel of the company, now numbering more than 600, are attending a celebration meeting the following morning at which it is hoped that directors of overseas subsidiary companies will be present. The board is giving a reception in the afternoon at Huizerstraatweg 28, Bussum, Holland.

In 1905, a start was made with the distillation of crude glycerin, a product that still occupies a prominent place in the company's production programme. Shortly afterwards the distillation of essential oil from caraway seed was commenced. Today, several hundreds of essential oils are produced. The essential oils led in turn to the synthetic aromatics, which—at a later stage—were processed from raw materials to semi-manufactures, for the benefit of both the perfume and the food industries. A process ("nardenisation") was developed for freeing essential oils of unwanted hydrocarbons. Fruit distillates and juices were next manufactured, leading also to the production of sodium benzoate and its derivatives as preservatives, as well as of octyl and dodecyl gallates, which were developed in conjunction with the Netherlands Institute for Nutrition Research. The extraction of theobromine and caffeine is another activity of the company. There are today subsidiary companies in Bombay, Brussels, Buenos Aires, Djakarta, Hamburg, Johannesburg, London, Oslo, Paris, Stockholm and Tokio, and agencies in seventy-eight cities throughout the world.

H

LEGAL REPORTS

Company Director Convicted

AT York Assizes recently, Kenneth Holmes, The Leys, Burgate, North Newbald, nr. Hull, a director of Sayers, Silcox, Cuzner & Co., Ltd., surgical appliance manufacturers, Hull, was convicted of offences against a schoolgirl and sentenced to ten years' imprisonment.

DANGEROUS DRUGS ACT

Guilty on Five Charges

FINES totalling £125, with £6 15s. costs, or three months' imprisonment, were imposed by Coalville magistrates on March 1 on Dr. Grace Alison McCormack, Leicester Road, Thurcaston, Leics. Dr. McCormack, formerly in practice at Coalville, had pleaded guilty to four charges of breaches of the Dangerous Drugs Act regulations, and to a fifth charge of failing to keep a register. She was stated to have obtained quantities of morphine sulphate from chemists and to have prescribed it for patients who did not receive the treatment. Her counsel stated that Dr. McCormack had been overwhelmed by illness in the family, overwork and financial distress. She intended to use the morphine on herself but had not done so and it had been destroyed.

CUSTOMS AND EXCISE

Prima Facie Case for Investigation

AFTER many protracted hearings at the Mansion House justice room, London, the following defendants were finally, on February 24, committed for trial at the Central Criminal Court on a joint charge of conspiring together to defraud the Customs in relation to importations of drugs from Copenhagen, Denmark: William R. Warner & Co., Ltd., manufacturing chemists, Power Road, Chiswick, London, W.4; Mr. Preis Grove Eliot Warburton (a director of the company), Oakwood Court, Kensington, London, W.14; Ward, Blenkinsop & Co., Ltd., manufacturing chemists, Henrietta Place, London, W.1; and Mr. Edward Bruce Ward (a director of the company), Oak House, Beaconsfield, Bucks. Each of the defendants entered a plea of "not guilty." The prosecution said that the defendants were accused of having made a series of false declarations for Customs purposes. Messrs. Warner had, since 1949, been importing a certain drug (Lucosil) from Lundbeck & Co., Copenhagen, and Messrs. Ward, Blenkinsop had acted as agents in England for the Danish exporter. Among the alleged inaccuracies in the declarations made to the Commissioners of Customs were statements by Messrs. Ward, Blenkinsop that they were independent importers; that they had made an outright purchase of the drugs; and that no part of the profits on the sales went directly or indirectly to the exporters in Denmark. Those declarations had resulted in an underpayment of duty, during the period covered by the charges, of £27,000. Prosecution declared that it was untrue for the defendants to say that there was no business association between themselves and the exporters from Denmark. Evidence was given by a number of Customs officers relating to the duties the defendants were called upon to pay upon the assumption that their declarations were true and accurate, and that the importer and exporter were acting entirely independently of each other. One Customs officer said that, in February 1952, he had had a telephone conversation with a member of the staff of Messrs. Ward, Blenkinsop, after which he investigated a number of transactions in Lucosil and expressed the opinions that the directorship of the two defendant companies and that of the Danish company were associated; that that fact had not appeared in the various declarations; and that a serious underpayment of Customs duties had been the result. Further investigations were made and eventually twenty-four summonses were issued. The case for the prosecution was opened on December 2, 1954. On February 24 the magistrate held that a *prima facie* case for investigation by a jury had been established, and he therefore committed the defendants as stated. Messrs. Warburton and Ward he required to enter into their own recognisances each in the sum of £100 for their surrender at the Old Bailey.

NEW COMPANIES

P.C. = Private Company; R.O. = Registered Office.

DIGESTOMINTS, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in medicated peppermint tablets, etc. Directors: Frank Kingham and Mary Kingham. R.O.: 37 Devonshire Lane, Leeds.

HINCHLIFFE, KIRK & CO., LTD. (P.C.).—Capital £5,000. To carry on the business of chemists and hairdressers' sundriesmen, manufacturers of cosmetics, etc. Directors: Robert Hinchliffe and Alan N. Kirk. R.O.: 111 Wellington Road South, Stockport, Ches.

S. SMITH (CHEMISTS), LTD. (P.C.).—Capital £1,000. To acquire the business of a chemist and druggist carried on by Elizabeth P. Smith at Main Street, Seahouses, Northumberland. Subscribers: Elizabeth P. Smith and J. W. Potter. The first directors are to be appointed by the subscribers.

RANKIN & BORLAND, LTD. (P.C.). — Registered in Edinburgh. Capital £25,000. To carry on the business of chemists, druggists, chemical manufacturers and dealers, etc. Directors: John F. Borland, Margaret P. Borland and George Campbell, M.P.S. R.O.: 2 Cheapside Street, Kilmarnock, Scotland.

CROXDALE ENGINEERING DEVELOPMENT CO., LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers and repairers of and dealers in chemical plant, etc. Directors: Eric E. McInnes and Stanley Todd. R.O.: 1 St. Nicholas Buildings, Newcastle-on-Tyne, 1.

E. W. EDWARDSON & CO. (WARE), LTD. (P.C.).—Capital £100. To carry on the business of glue, gelatine and soap compounders, etc. Subscribers: Reginald A. Chiverrell and Betty M. R. Mould. Solicitors: Bower Cotton & Bower, 4 Breams Buildings, London, E.C.4.

REGINALD A. E. AVERY & SON, LTD. (P.C.).—Capital £1,000. To carry on the business of wholesalers and retailers of chemists' and druggists' sundries, medicines, etc. Directors: Reginald A. E. Avery, Ann Avery and Bernard E. Avery. R.O.: 21 Naunton Lane, Cheltenham.

DELSANEX (SCOTLAND), LTD. (P.C.). — Registered in Edinburgh. Capital £150. To carry on the business of manufacturers of chemicals and detergents, etc. Subscribers: Thomas Malley, St. Anna, Gorleston-on-Sea, Norfolk, and C. D. Mackenzie (directors, Delsanex, Ltd.).

D. & L. SCHOFIELD (1955), LTD. (P.C.).—Capital £100. To carry on the business of dispensing and analytical chemists and druggists, etc. Directors: Daphne Schofield, Lancelot L. Schofield and George E. I. Davies, M.P.S. R.O.: 31 Basinghall Street, London, E.C.2.

ANSAR HARFORD & CO., LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers of and dealers in chemicals, gases, drugs, medicines, etc. Subscribers: Shaikh Ataur Rahman and Gordon Hodson, 8 Southampton Place, London, W.C.1. R.O.: 3 Abchurch Yard, London, E.C.4.

Company News

SMITH & NEPHEW ASSOCIATED COMPANIES, LTD.—Resolutions increasing the capital of the company, the capitalisation of reserves and bonus issue to shareholders in the proportion of two new ordinary shares for every one ordinary share held and the altering of the Articles of Association were passed on March 1.

SAVORY & MOORE, LTD.—It is proposed to reorganise the capital structure of the company. The 7½ per cent. participating preference is to be converted into the existing 6 per cent. non-participating preference stock. Authorised 6 per cent. preference capital will be doubled to £300,000 and authorised ordinary raised to the same figure. Holders of the present 6 per cent. preference are offered one "free" 6 per cent. share for every twelve held, the 7½ per cents. will receive five 6 per cents. for every twelve existing £1 units now held.

MONSANTO CHEMICALS, LTD., are to form a subsidiary company, Monsanto Phosphates, Ltd., which will erect and operate plants in Great Britain for the production of sodium phosphates and other phosphorus compounds. The first plant will be a major installation at Newport, Monmouthshire, for the production of sodium polyphosphate used mainly for detergent applications. Mr. J. M. Kershaw has been appointed general manager, and the directors are: Dr. J. W. Barrett, Messrs. D. R. Mackie, H. S. Parry, N. F. Patterson, D. C. M. Salt and P. A. Singleton.

BUSINESS CHANGES

LOCK'S CHEMIST, LTD., have opened a pharmacy at 85 High Street, Lyndhurst, Hants.

MR. C. A. MICHIE, M.P.S., 471 Union Street, Aberdeen, has closed down that branch shop and transferred the business to his pharmacy at 231 Union Street.

WILLIAM HILL & CO., 63 Berkeley Street, Glasgow, C.2, Scottish agents for the 4711 products of Scott & Bowne, Ltd., are to take over the 4711 representation in Scotland from Mr. David Walker who has resigned for health reasons.

GEO. SALTER & CO., LTD., have introduced the Telex system at their head office at High Street, West Bromwich, and London office at 31 High Holborn, W.C.1. Correspondents who are themselves using the system can establish direct contact through the numbers Telex 33/114 (for West Bromwich) and Telex 2/2734 (for the London office).

Appointments

CYANAMID PRODUCTS, LTD., Bush House, London, W.C.2, have appointed Mr. C. G. Killpack sales manager of their Lederle Laboratories Division. While retaining his position as sales manager of the animal feed and veterinary departments, Mr. Killpack is now also responsible for sales promotion of the range of Lederle medical specialities.

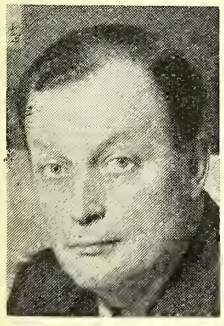
GENATOSAN, LTD., Loughborough, have appointed Mr. H. A. E. Spalding, M.P.S., their chemists' sales manager, and Mr. H. G. Gwynne, M.P.S., medical sales manager. The company state that the two appointments have been made as part of an overall long-term sales and marketing plan to deal with current and future developments.

PERSONALITIES

MR. C. A. MASON (manager, formula and stock control department, Parke, Davis & Co., Ltd., Hounslow) is retiring in July after fifty years' service with the company.

MR. ARTHUR JOHN MIDDLETON, B.Pharm.(Lond.), M.P.S., has passed the examination for the associateship of the Royal Institute of Chemistry.

MR. C. G. KILLPACK, who has been appointed sales manager of Lederle Laboratories division, Cyanamid Products, Ltd., joined the company in April 1954 before which he held the post of deputy home trade manager with Cooper, McDougall and Robertson, Ltd., Berkhamsted. He was a wartime pathfinder pilot with Bomber Command. In October 1954 he visited America in connection with his animal feed and veterinary interests.



MR. PETER FULLAM, M.P.S.I., who has been elected captain of the Irish Chemists' Golfing Society (see p. 272) was apprenticed to Mr. E. A. MacManus (treasurer of the Society). He qualified in 1934 and opened his own pharmacy in Naas, co. Kildare. He has been a member of the Society since the early 40's. He is a member of the Council of the Pharmaceutical Society of Ireland.

DEATHS

CLAYTON.—Recently, Mr. Charles Percival Clayton, M.P.S., 273 St. Sepulchre Gate, Doncaster, Yorks, aged forty-seven. Mr. Clayton had been in business in St. Sepulchre Gate since he qualified. He was a former member of the committee of Doncaster Branch of the Pharmaceutical Society and a member of Doncaster camera club. He is survived by his widow.

COLLITT.—Recently, Mr. William Silvester Collitt, M.P.S., 98 King's Avenue, Holland-on-Sea, Essex. Mr. Collitt qualified in 1902.

DAVIES.—On October 17, 1954, Mr. Thomas William Davies, M.P.S., Westbourne, Mold Road, Caergwrle, nr. Wrexham, Denbighs, and formerly The Pharmacy, High Street, Caergwrle, Wrexham, aged eighty-four.

FIELDING.—At his home, Leemount, Tivoli, Cork, Mr. Michael Angelo Fielding, M.P.S., D.Opt., F.C.S., aged seventy-seven. Mr. Fielding was managing director of Fieldings Pharmacy, Ltd., Patrick Street, Cork. He was associated in that business for well over half a century with his brother, the late Mr. Patrick J. Fielding (a former president of the Pharmaceutical Society of Ireland). He is survived by his son, Dr. Michael Fielding.

FLANAGAN.—Recently, Mr. John Flanagan, M.P.S.I., Buttevant, co. Cork. Mr. Flanagan qualified as a pharmaceutical chemist in Ireland in 1910. He carried on a pharmacy in Buttevant for many years.

LINKS.—On February 2, Mr. Julius Links, M.P.S., Flat 302, Frobisher House, Dolphin Square, London, S.W.1. Mr. Links was registered in pursuance of section 11 of the Medical Practitioners and Pharmacists Act, 1947.

RENTON. — Recently, Mr. David Ross Renton, M.P.S., 68 Burns Road, Aberdeen, aged fifty-two. Mr. Renton had been manager of the branch of Boots, Ltd., at 133 Union Street, Aberdeen, for the past eight years. He was a native of Edinburgh, and had been with the company since 1917. He was manager at Montrose and Berwick before his promotion to Aberdeen.

ROBINSON.—At the West Middlesex Hospital, on February 10, Mr. John Leolin Robinson, F.P.S., 72 Warwick Road, Ealing, London, W.5. Mr. Robinson qualified as a chemist and druggist and passed the Pharmaceutical Chemist examination in 1903.

STAFFORD. — Recently, Mr. Frederick Francis Stafford, L.P.S.I., Vicar Street, Tuam, co. Galway. Mr. Stafford qualified as a pharmaceutical chemist in Ireland in 1907. He opened a business in Tuam in 1911 in conjunction with his brother, the late Mr. Patrick Stafford.

IN PARLIAMENT

By A Member of the Press Gallery, House of Commons

MR. R. A. BUTLER (Chancellor of the Exchequer) told MR. R. S. RUSSELL on March 1 that the term " double reduced rate restriction " was used by the Inland Revenue on Income Tax coding forms when the P.A.Y.E. coding had to be adjusted where an individual had more than one source of income falling within P.A.Y.E. It is intended to correct the excessive allowance of reduced rate relief which would otherwise be given by the tax tables in such cases.

Mercury Tablets

MR. S. T. SWINGLER asked the Minister of Health on March 7 what action he would take concerning the supply of tablets containing mercury to infants. MISS P. HORNSBY-SMITH (Parliamentary Secretary, Ministry of Health) said that the Minister had been advised that mercurial preparations had a proper place in medical treatment. His medical officers had already suggested to medical officers of health that powders containing mercury should be issued from child welfare clinics only on medical advice and with precise instructions. He would consider whether to suggest that those preparations should cease to be available at clinics.

Trichlorethylene in Childbirth

MISS P. HORNSBY-SMITH (Parliamentary Secretary, Ministry of Health) told MR. A. G. BOTTOMLEY on March 7 that the Central Midwives Board had approved two types of machine for the administration of trichlorethylene and those were now in production.

Food and Drugs (Scotland) Bill

The Food and Drugs (Scotland) Bill was read a third time in the House of Lords on March 8. An amendment, moved by Lord Douglas of Barloch, with the effect that food should be deemed to be not of the quality demanded if it contained any added synthetic chemical and no notice was given to the purchaser specifying what it was, was withdrawn. The Earl of Home had said that the method the Government proposed to adopt if the Bill became law would be to draw up a permitted list of substances which might safely be used in food, and that was under discussion. Outside that permitted list, other substances could either be controlled or prohibited by regulation. So far as it was reasonable they would require manufacturers to label their products and to let the public know what was in them.

PHOTOGRAPHIC TRADE NOTES

Camera Bellows. — Bellows for cameras are supplied and fitted by Clement Wain, Ltd., Newcastle, Staffs.

Appointed Distributors. — Jonathan Fallowfield, Ltd., 74 Newman Street, London, W.1, announce that they are now wholesalers of Kershaw products.

Field Glasses. — Haynor, Ltd., 167 Greyhound Road, London, W.6, invite chemists to send for an illustrated folder giving details of field glasses and binoculars available from the company.

Hypo. — John Riley & Sons, Ltd., Hapton, nr. Burnley, invite inquiries concerning their Eagle brand photographic hypo, sulphite and other photographic chemicals.

Mirrors Resilvered. — Mirrors for reflex cameras are resilvered by return of post or realuminised in two or three days by Gowllands, Ltd., Morland Road, Croydon, Surrey.

All Photographic Supplies.—Johnsons of Hendon, Ltd., Hendon Way, London, N.W.1, hold themselves out to supply all the requirements of photographic dealers—chemicals, accessories, equipment and cameras.

First Post-war Photo Fair. — Over forty exhibitors have already booked space at the first post-war Photo Fair in Great Britain, May 16-21. The organisers are British Organisers, Ltd., London.

Photographic Binoculars.—For landscape, nature and long-focus photographers, Gordon Ivey, Smith & Co., Mardon House, Teignmouth, Devon, have produced special "photographic binoculars."

Fast X-ray Film. — Kodak, Ltd., Wealdstone, Harrow, Middlesex, are marketing a new fast *x*-ray film for industrial and medical radiography. The new material is recommended for techniques demanding a fast film in direct-exposure work or for exposures with lead intensifying screens.

Photographic Stocks in Bradford.—Brook, Parker & Co., Ltd., Ashfield, Horton Road, Bradford, 7, are stockists of photographic and optical Kershaw products manufactured by G. B. Kershaw, Ltd., Leeds, and distributors of leading makes of cameras, apparatus, chemicals and sensitised material.

An Encyclopædia for Photographers.—A four-volume *Handbook of Amateur Photography* is published by Fountain Press, 46 Chancery Lane, London, W.C.2, price 84s. the set (postage 2s.). It contains sections on cameras, focusing, exposure, developing, contact printing, enlarging, flash photography, etc. The editor is Mr. G. L. Wakefield, F.I.B.P., F.R.P.S.

Equipment of All Kinds. — R. F. Hunter, Ltd., 51 Gray's Inn Road, London, W.C.1, cater for the photographic dealer with the Paterson contact printer; "enables the amateur to make his own professional quality prints"; Paterson transparent spiral universal tank with patented self-loading spiral and other tanks; Paterson 2 x 2-in. viewer; as well as cameras, enlargers, projection screens, flashguns, etc.

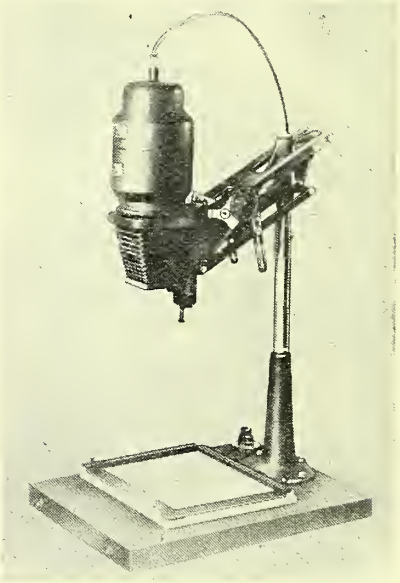
Films. — Now in good supply, the Agfa ISS and Agfa Isopan F films are available in popular roll-film sizes and as 35-mm. film from AGFA, LTD., Deer Park Road, Wimbledon Factory Estate, London, S.W.19. — The qualities claimed for Gevapan 33 film are great speed, fine grain quality and an exposure latitude of nearly a full stop either way; the makers are GEVAERT, LTD., Acton Lane, London, N.W.10.— Ferrania superpan films are distributed in Britain by NEVILLE BROWN & CO., LTD., 77 Newman Street, London, W.1.

Multi-heat Plate.—For maintaining solutions at constant temperatures in the dark room there is now available the Unitel multi-heat plate, size 12 x 10 in. The control knob has ten fixed settings and the plate quickly brings solutions to and maintains them at working temperature. The Unitel has a stove-enamelled finish, works at 200-50 volts and has a current consumption of only 40–60 watts per hour. The distributors are Jonathan Fallowfield, Ltd., 74 Newman Street, London, W.1.

Developing and Printing.—BROADSTAIRS PHOTO WORKS, LTD., 13 Victoria Road, Ramsgate, offer same-day postal service in developing and printing for photographic dealers (van delivery in Thanet). — CROSS BROTHERS, department 2CD, 70 Mardol, Shrewsbury, undertake developing and printing and offer "films back by return, winter and summer."—"The finest and most efficient developing, printing and enlarging service in London and the Home Counties" is offered by PHOENIX PHOTOGRAPHICS, 53 Leytonstone Road, London, E.15.

Colour Photography. — The Aldis 250 and 100 projectors for colour photography, giving ample illumination for the projection of 35-mm. colour transparencies (2 x 2-in. slides), and suitable also for the viewing of film strips, are distributed by Neville Brown & Co., Ltd., 77 Newman Street, London, W.1. Messrs. Neville Brown are also suppliers of the Polly-Min developing tank designed specially for processing colour as well as monochrome films. The tank takes 120 and 127 roll films, 35-mm. (twenty exposure) and No. 88 films.

Capless Flash-bulbs. — Made by Philips Electrical, Ltd., and distributed by Ilford, Ltd., Ilford, the Philip's PF1 flash-bulb dispense with the relatively costly metal cap. The special adapter fits into any flash-gun that takes the ASCC flash-bulb, the capless bulb slipping easily into the adapter in which it is held firmly in place. The shapes of the bulb and adapter make it impossible to insert the bulb incorrectly; two external contacts on the glass stem match two metal contacts fitted inside the red plastic core of the adapter. When the bulb has been used it is easily ejected by light pressure on a small ejector lever fitted permanently to the adapter. The light output of the PF1 is 6.500 lumen/seconds (a greater total output than is given by the PF3). The guide number is over 180 with high-speed panchromatic film. The short duration of the flash (less than 1/100 second) enables action shots to be taken even with snapshot cameras. The PF1 is a wire-filled class-M bulb. It has the usual Philips safety features such as the protective coating and the blue safety bead.

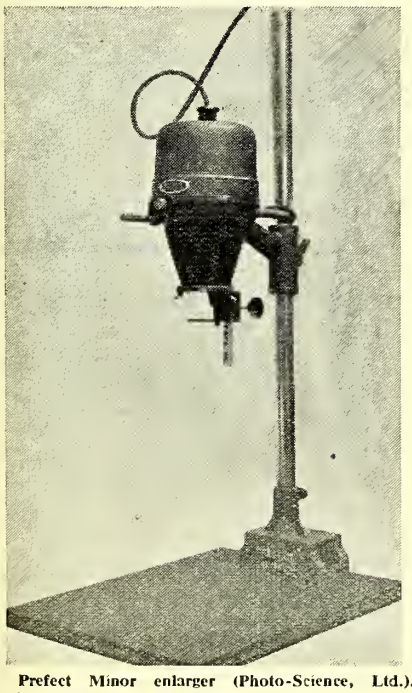


The Autofoco enlarger (Photo Science, Ltd.). The enlarger is described on p. 283.

Cameras in Variety. — Cameras advertised in this issue include the Swiss precision cine instrument Bolex, distributed in Britain by CINEX, LTD., 9 North Audley Street, London, W.1; the Kershaw 110 "luxury snapshot camera at a popular price"; and Kershaw 630 camera with f/6·3 coated lens, both distributed by G.B. EQUIPMENTS, LTD., photographic and optical division, 37 Mortimer Street, London, W.1; the Ilford Envoy snap and flash box camera taking eight pictures on 120 or 620 roll film and made by ILFORD, LTD., Ilford, London; the Ferrania Ibis 27, 6 x 6, Ferrania Elioflex, the Gloriette 35-mm. with f/2·8 Steinheil-Cassar lens and Prontor SVS shutter, Gloria 2 x 2¼-in. rangefinder camera, Paxina 29 2¼ x 2¼-in. Paxette 1 35-mm. and Paxette 1m 35-mm. cameras, all distributed by NEVILLE BROWN & CO., LTD., 77 Newman Street, London, W.1; Hexi 2¼ x 2¼-in. with three-element colour-corrected Tricomat lens and Luxette cameras, both distributed by J. J. SILBER, LTD., 51 Avenue Chambers, Vernon Place, London, W.C.1; the Digna 1 and Digna 3 with f7·7 and f6·3 respectively, supplied by Amplion (1932), Ltd., 230 Tottenham Court Road, London, W.1.

Developers and Fixers. — Photographic products issued by May & Baker, Ltd., Dagenham, Essex, include Promicrol ultra-fine-grain developer claimed to enable the user, by orthodox photographic methods, to increase film speeds two or three times. Keeping qualities are excellent; a special replenisher is supplied. Promicrol is issued in containers to make 600 c.c.,

2½ litres and 13½ litres of developing solution. Promicrol replenisher is in containers to make 2½ and 10 litres. Cobrol bromide-paper developer gives ten times its own volume of solution with long working life. It has wide latitude in printing exposure times. Cobrol is issued in bottles of 250 c.c. (to make over ½ gall.) and 2·5 litres (to make over 5 gall. working solution). The company's fine-grain developer 320 gives fine grain without loss of emulsion speed and adequate shadow detail with normal exposures. It is issued in containers to make 20 fl. oz. and 1 gall. Contrast developer 300 is for use where normal types would give insufficient contrast. It is suitable for all makes of plates, films and papers, and is issued in containers to make 20 fl. oz. and 1 gall. For use in deep tanks for development of roll films, DP tank developer produces slightly softer negatives (particularly advantageous with roll-head printers). A replenisher is supplied separately; 100 per cent. replenishment is recommended. The developer is in tins to make 12 and 24 gall., and the replenisher in tins to make six 2-gall. units and six 4-gall. units. The colour developing agents, Genochrome, dissolves rapidly in water giving an extremely stable solution. Tolochrome is currently used in many cinè laboratories for processing Eastman colour, and Droxychrome is available in trial quantities for making positive prints in many negative/positive processes (e.g. Agfacolor, Gevacolor, and Ferraniacolor). The company's Amfix ultra-rapid fixer is an easily diluted liquid fixer based on ammonium thiosulphate. It fixes films, plates and papers in as little as one-quarter the time taken by "hypo," and has a longer working life. A special hardener is available for use with the fixer. The fixer is in bottles of 10 and 80 fl. oz., and the hardener in 1 and 8 fl. oz.



Prefect Minor enlarger (Photo-Science, Ltd.). The enlarger is described on p. 288.

NEW PRODUCTS AND PACKS

Non-barbiturate Sedative.—A new, non-barbiturate sedative, Noctynol, has been produced by Moore Medicinal Products, Ltd., 1 Queen's Terrace, Aberdeen, Scotland. There is one pack: a dispensing pack of fifty tablets. Distribution of sample packs, each containing six tablets. to medical practitioners is in progress.

Barium Sulphate Suspension. — Evans Medical Supplies, Ltd., Speke, Liverpool 19, announce the issue of Fotogel, a new barium-sulphate suspension that is stable and palatable and contains in each ml 1 gm. of barium sulphate, B.P. Fotogel provides a fine dispersion of the sulphate and may be mixed with hot or cold water, milk, farinaceous foods or saline laxatives. It is supplied in a 2-litre container.

Nitrothiazole Pessaries.—Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, announce the introduction in the United Kingdom of Aroxine brand pessaries, each containing 75 mgm. of 2-formamido-5-nitrothiazole. Aroxine is indicated for the topical treatment of *Trichomonas vaginalis* vaginitis (trichomoniasis). In a comparative clinical trial its therapeutic efficacy was found to be about equal to that of acetarsol, but as Aroxine contains no arsenic it does not give rise to the reactions that occasionally result from the topical use of arsenical compounds. Aroxine pessaries incorporate a foaming base to promote rapid and extensive dispersion. They are available in bottle of thirty and tin of 500. Aroxine is not subject to control under the Poisons Rules.

Burn Cream. — To the range of packed pharmaceuticals available from Ayrton, Saunders & Co., Ltd., has been added a burn cream containing



aminacrine hydrochloride, 0·1 per cent., in a non-greasy base. Its soft consistency and bland and soothing properties make it excellent for use in the treatment of sunburn. A "crowner" for the display outer, drawing attention to that selling-point, is being supplied at the appropriate time.

TRADE NOTES

Granules Still Available.—Westminster Laboratories, Ltd., Chalcot Road, London, N.W.1, emphasise that Senokot is available in the original granule as well as the new tablet forms.

500-tablet Pack. — Abbott Laboratories, Ltd., 3 Wadsworth Road, Perivale, Greenford, Middlesex, announce the introduction of a 500-tablet pack of Erythrocin stearate Filmtabs (erythromycin stearate).

Dispensing Pack. — Continental Laboratories, Ltd., 101 Great Russell Street, London, W.C.1, have introduced a new dispensing pack of fifty 3-c.c. Neutraphylline ampoules and reduced the price of the existing dispensing packs of 250 and 1,000 tablets.

Key Word Omitted. — Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1, state that, in notifying recently a reduction of price, the manufacturers erroneously described Argyrol as argentoproteinum, B.P.C. The product is, in fact, Argyrol brand mild silver protein (argentoproteinum mite, B.P.C.).

Discontinued.—Glaxo Laboratories, Ltd., Greenford, Middlesex, announce that the following products are discontinued in the home market and in Eire: Berin tablets: 3-mgm., 10-mgm. and 25-mgm.; Berin ampoules; Celin tablets, 50-mgm. and 200-mgm.; Celin ampoules; Celin forte ampoules; Pheniodol granules and tablets; and Minexin.

Dispensing Pack Change.—Reckitt & Colman, Ltd., Hull, announce that cartons of Solprin for dispensing purposes will now contain 500 instead of 300 tablets, and in foils of ten instead of six tablets as hitherto. The design and style of the pack have also been altered, and in future the foils will bear the letter "S" printed at intervals all over.

Display Bonus Scheme. — Aspro, Ltd., Slough, Bucks, announce a new display bonus scheme. Until recently the company's representatives have serviced the trade less than twice a year. Henceforth every retail chemist will receive a service call every three months. Display bonus cards are being packed inside the Aspro showboxes, and when the representative calls he will collect the display bonus cards and hand the chemist the Aspro display bonus to the value of the completed bonus cards.

Conference Report.—Copies of the report, "The Way Ahead" (Pp. 16. 1s. 3d. post free) of a conference organised by Boxfoldia, Ltd., Bournbrook, Birmingham, 19, and Hymatic Engineering Co., Ltd., Redditch, "to provide opportunity of discussion to many people who do not normally have the chance of attending conferences of the kind" are available from the publications department of Messrs. Boxfoldia. The emphasis is on the moral responsibility of individuals.



Counter Packs at dispensing prices

Quantity Discount Prices.
Zinc and Castor Oil Cream B.P. 1953.

Free from P.T.	List	3 doz.	6 doz.	12 doz.	24 doz.	60 doz.
1 oz. Jars	6/-	—	5/9	5/6	5/3	5/-
2 oz. Jars	9/-	—	8/9	8/6	8/3	8/-
4 oz. Jars	14/3	—	13/9	13/3	12/9	12/3

TERMS Less 2½% 14 days.
FREE delivered van area. Outside carriage extra at cost.
SAMPLE SENT ON REQUEST.

Operation of Quantity Discount Prices. The prices shown under the various quantity headings can be taken for that product in any combination of sizes. Terms: less 2½% 14 days. Free delivery VAN area.

SKUSE & CO. LTD.

Manufacturing Chemists

839/841 Harrow Road, London, N.W.10 'Phone: LADBROKE 2201-2-3 'Grams: SKUDENT, HARLES

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36 RAYMOUTH ROAD, BERMONDSEY, S.E.16
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INFORMATION WANTED

The Editor would appreciate information about suppliers of the following item:

SENECAL tablets

The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at

28 Essex Street, Strand, London, W.C.2

TELEPHONE CENTRAL 6565

TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

Filter, not Delivery-belt

THANKS to the tide of national prosperity that is now flowing strongly, the market is again becoming crowded with a multiplicity of branded articles. When they are issued by pharmaceutical firms of repute, and ordered by prescribers, the pharmacist must stock them whether he likes it or not, and suffer the consequences in an accumulation of dead stock.

It is otherwise, however, with goods for sale over the counter in the ordinary course of business. With those he may show discrimination in his buying, and is, indeed, acting prudently and responsibly in doing so. For stocking a great number of articles having similar uses reacts unfavourably on a business in three ways. It makes necessary the investing of more money in stock than is justified by the total sales; it overcrowds shelves already congested; and thirdly it increases the time and labour that has to be given to stock-keeping and stock-taking. In his own legitimate interest, therefore, the chemist should exercise his freedom of choice in deciding which of a number of competing brands to take into stock. As a natural result, he will also seek to induce his customers to buy what he has to sell. That may be easier than it sounds, for customers are not always sure what make of article they wish to buy. The salesman in influencing customers to select an item he stocks is in those circumstances in no way offending by substitution.

The reason so many shoppers are hesitant and uncertain in their buying of everyday requirements, and slow in making up their minds, is not far to seek. Wherever they turn their eyes or cock their ears, people see pictures or hear voices adjuring them to buy this or swallow that, and bewilderment increases when advertisers pit themselves against each other.

The irresolution brought about by that mass attack is the salesman's opportunity, but also his responsibility. Since his clients, in asking his advice, are seeking information that may vitally affect their health and welfare, he must be sure that his stock-in-trade will stand up to the claims made for it. Before taking up a new line, therefore, he ought to inquire closely into its credentials, examining a number of points over and above the margin of profit that it shows. Is it of unimpeachable quality? Is it adequate to the purpose for which it is recommended? What are its advantages over existing lines of a similar kind? Is it well packed? And so on.

Another important question is whether the showcards or other advertising matter provided are appropriate to the pharmacy. The strip-tease or pin-up girl type of showcard may not be appropriate to the customers in a high-class pharmacy. Nor is it good to show pictures of agonised men and women suffering the pangs of headache or indigestion. The atmosphere of the pharmacy is more welcoming if it is pervaded by the spirit of cheerfulness, suggesting the possibility of renewed health rather than the miseries of illness.

If he takes the line of least resistance the chemist will continue to be exploited by manufacturers eager to utilise his knowledge and reputation in launching new lines, only to seek a wider distribution as their products become known to the public. The pharmacist should be, not a delivery-belt but a filter between manufacturer and consumer, making his own informed choice between products of similar value and suitability, allowing some to pass through his hands, rejecting others.

Photography to the Fore

ALTHOUGH in the course of the year a good many column inches of the *C. & D.* are given over to matters of direct moment to the chemist photographic dealer, the present Annual Photographic Number focuses attention on the department in a way that is not ordinarily possible.

This year the emphasis has been put on enlargers, enlargements and accessories for enlarging. A comprehensive review is given of the apparatus available for the amateur owner of a 35-mm., 6 x 6-cm., or $2\frac{1}{4}$ x $3\frac{1}{4}$-in. camera—the person, in fact, most likely to be looking for ways of advancing beyond the stage of exploiting all the picture-making possibilities of his instrument. Naturally he may need a little prompting to widen his interests, and a suggested window display shows how by a lively display his keenness may be awakened. Accessories are included in the display and they are also the subject of a special article.

Colour photography continues to advance in popularity, and in the number of its devotees, step by step with the wider facilities offered by manufacturers. If the subject receives no special mention in this issue it is because it was so amply and recently dealt with in our Annual Special Issue of 1954 (June 26, 1954, pp. 679–86). We would, however, urge dealers to keep pace with its sales potentialities, especially in the best way possible—by becoming practising colour photographers themselves. Flash photography no less must be kept alive, even in the summer months as a supplement to daylight on those days when the light is less actinic than according to the calendar, it should be.

A branch of photography that is undergoing a distinct revival of interest, especially in other countries, is stereoscopy, and in an article on that subject a contributor traces its early history and explains its recent "come-back." "Photographic Notes" on other current goods are given under the title in association with Trade Notes in their usual position. A little space is reserved also to pay tribute to one who had the right idea of linking actinic values to exposure times before the modern accurate exposure-measuring instruments came on to the market: Watkins, whose Bee meter was for many years almost the only device of its kind.

Attention is drawn finally to the Photographic Dealers' Association's 1955 national scale of charges for developing, printing, etc., in operation from April 1. The rates are given on p. 304.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

PROPOSED HOME FOR RETIRED PHARMACISTS

N.P.U. offers help in establishment and maintenance

THE Council of the Pharmaceutical Society at its meeting in London, on March 1, approved for circulation to branches a letter, drawn up in consultation with the National Pharmaceutical Union, calling attention to the proposed establishment of a residential home for retired pharmacists and widows or widowers of pharmacists not less than sixty-five years of age. The letter asks for information on the likely need of such a home and the extent to which branch members will be willing to contribute to the capital and maintenance costs. It states that the proposal, which the Council had under consideration some time ago, has recently been revived as the result of an offer by the National Pharmaceutical Union to assist in establishing and maintaining such a home by raising a fund as a memorial to the late Mr. G. A. Mallinson. It is suggested that a property should be acquired or built that would accommodate thirty residents. Capital cost would be of the order of £30,000. Of that amount £15,000 would be provided by the National Pharmaceutical Union and the remainder would be the subject of an appeal. An assurance would be needed from the branches that they would help in maintaining the home to an extent that might be as much as £4,000 a year. The appeal would be directed to individual members, but branches are being advised of the amount their members would need to contribute towards the capital and maintenance costs. The Council makes it clear that existing charitable funds of the Society must not suffer. Each branch secretary is being asked to find out the number of persons in his area who would be likely to take advantage of such a residential home in London or the Home Counties.

Letters of condolence on the deaths of Mr. E. Saville Peck and Dr. C. H. Hampshire were received from the International Pharmaceutical Federation, from the *Academie de Pharmacie,* Paris, and from Dr. T. Potjewijd, Winschoten, Holland (an honorary member of the Society). A letter was received from the Denbighshire and Flintshire Pharmaceutical Committee expressing appreciation of the services of the late Mr. T. R. Morris, the Society's inspector for Wales.

The Public Services Committee noted that the Central Health Services Council had formed a committee "to consider and report on the desirability of adopting a standard system for determining the responsibility for the custody and issue of Dangerous Drugs and scheduled poisons in hospitals, and for recording the requisitioning and issuing of them." The Committee was understood to be considering whether it would receive written and verbal evidence.

Refresher Courses

A report was given to the Public Services Committee of a discussion at the Ministry of Health on the possibility of providing refresher courses for pharmacists in the general practitioner service. It was understood that the Minister was not prepared to consider granting financial assistance for the purpose until other more pressing needs of the National Health Service had been met. In the Ministry's opinion the position of the pharmacist in the general practitioner service was not comparable with that of the pharmacist in the hospital service. If, however, a local branch organised part-time refresher courses it could apply to the Ministry for a token payment towards the cost. The Committee agreed that that suggestion should be followed up.

The Council adopted the Establishment and Publications Committee's recommendation to congratulate Dr. T. E. Wallis (emeritus curator of the Society's museum) on his re-election as president of the Royal Microscopical Society for a further year.

Sir Hugh Linstead submitted a report on the first meeting of the Provisional Committee of the United Kingdom Committee for the World Health Organisation. The report stated that Sir Allen Daley (formerly chief medical officer of London County Council) had been asked to remain as chairman for the first year, and that Miss Baggally, S.R.N., who recently resigned from the World Health Organisation staff, had agreed to act as secretary for the time being. Arrangements were made to call the first annual meeting at the London School of Hygiene and Tropical Medicine on April 5. At a World Health Day commemoration at the same place on that day, addresses would be delivered by the Minister of Health and two medical experts.

It was agreed that the certificates of the Associated Examining Board for the General Certificate of Education should be accepted in the same way as certificates from the various examining boards referred to in Appendix I to the Society's examination regulations.

The Council approved a recommendation of the Education Committee to approve the Dundee Technical College as a place of instruction for the Qualifying examination for a period of three years from July, subject to satisfactory provision being made by September for teaching physiology and pharmacology. The Education Committee granted approval to two manufacturing pharmaceutical laboratories for the provision of pharmaceutical training.

Examination Results

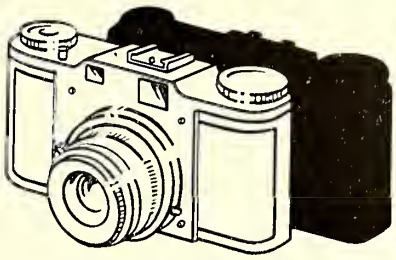
In the Intermediate examination in England and Wales, in January, there were nine first entries, of whom two passed, three were referred, and four failed. Of thirty-one re-entries, six passed, ten were referred, thirteen failed, and two were absent. Seventy-two candidates entered for a referred subject, and forty-three passed and twenty-eight were again referred. In Scotland in the Intermediate examination there were two first entries, and one passed, three were referred, and nine failed. Seventeen candidates sat for a referred subject, and eight passed, nine being again referred. In the Pharmaceutical Chemist Qualifying examination in England and Wales there were twenty-eight first entries, of whom thirteen passed, four were referred in one subject and four in two subjects, and seven failed. There were fifty-one re-entries, of whom four passed, eight were referred in one subject and eight in two subjects, twenty-four failed and seven were absent. Of those who entered for referred subjects, there were 101 entrants for one subject, of whom seventy-four passed and twenty-three were again referred, four being absent; forty-four candidates entered for two subjects, and fifteen passed, twenty-seven being again referred in both subjects, and two were absent. For forensic pharmacy only there were seventy-seven candidates, seventy-four of whom passed, one being referred and two being absent. In Scotland there were eleven first entries for the Qualifying examination, and seven passed, two were referred in one subject, and two failed. Of sixty-five re-entries, thirteen passed, twelve were referred in one subject and fourteen in two subjects, twenty-four failed, and two were absent. Forty-eight candidates entered for a referred subject, and twenty-eight passed, twenty being again referred; thirty entered for two subjects, and seventeen passed, twenty-one being again referred in both subjects, and one being absent. For forensic pharmacy only there were thirteen entrants all of whom passed.

On the recommendation of the Establishment and Publications Committee, it was agreed that the Codex Revision Committee should be reconstituted to revise the British Pharmaceutical Codex 1954 and invitations to serve issued to the persons proposed.

(To be concluded)

THE CHEMIST'S

PHOTOGRAPHIC DEPARTMENT



GUIDE TO ENLARGERS

for amateur photographers

AT the time the "hand" camera made its appearance the quarter-plate negative was regarded as small. Today, when the most popular formats are the 24 x 36 mm. and 6 x 6 cm., an enlarger may be looked upon as almost a necessity for the enthusiastic photographer.

Instruments available range from the simple and inexpensive to the elaborate and costly, and the chemist photographic dealer, faced with so great a diversity of instruments, may well feel the need of some guidance in what to stock. The paragraphs that follow may provide it.

35-mm. MODELS

AMATO JUNIOR: A simple instrument eminently suitable for beginners. Height of head adjusted by rubber friction drive. Optically worked condenser. Helical focusing. Lens panel threaded for lenses with Leica fitting. Adaptors for Dallmeyer and Wray lenses. 12-in. square baseboard. Enlargements up to 7 x 5 in. on base; larger prints possible by swinging head to project over edge of table.

Without lens, £8 8*s.*; *with coated f*/4·5 *Amatofirma lens,* £10 10*s.*

LUMINOS, LTD.

AMATOFIX: Automatic focusing version of the Amato. Parallelogram type cantilever. Autofocus up to 7-diameter enlargement (up to 18 times manually).

With Steinheil Cassar, 50-mm. f/3·5 *coated lens with click stops,* £29 19*s.*

LUMINOS, LTD.

AUTOFOCO: Head carried on girder parallelogram with ball bearings. Weight of head counterbalanced by tension spring. Cams and gears spring-loaded to obviate backlash. Adjustment compensates for official tolerance of focal length of lenses and trimming for critical or slightly softened definition.

Braced sheet steel baseboard. Roomy, well ventilated lamphouse, with provision for lamp adjustment. Single optically worked condenser in helical mount to clamp negative-carrier. Glassless negative carrier. Film cradles. Auxiliary safelight mounted on baseboard. Switches for lamp and safelight built into front edge of baseboard.

Without lens, £45 17*s.* 4*d.*

WILKINS & WRIGHT, LTD.
(Wholesale distributors, PHOTOSCIENCE, LTD.).

COMET: Robustly constructed, mainly from die-castings. Horizontal lamphouse with mirror to deflect light through the condenser. Twin, optically worked condensers with rise and fall controlled by side lever. Similar side lever to operate internal sliding safelight filter.

Ingenious optical range-finding device incorporated in negative carrier. When carrier is drawn forward a line of light is projected on to baseboard; when negative plane is accurately focused that line is unbroken. Focus having been adjusted, the carrier is pushed back and sharply focused. Focus accuracy independent of focal length of lens.

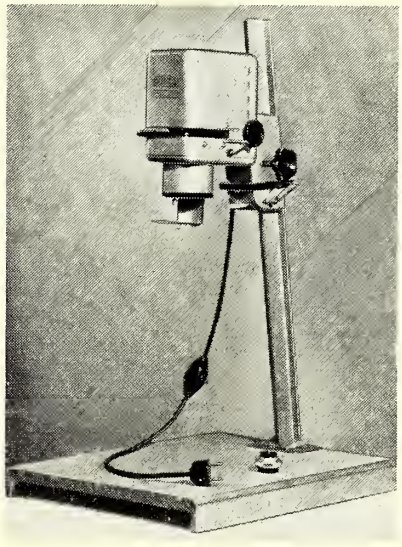
Multi-start focusing jacket screwed for Gnome range of interchangeable lens flanges.

Magnification range on baseboard with 2-in. lens, 1 to 10 times.

Complete with Leica flange but without lens, £31 16*s.*

GNOME PHOTOGRAPHIC PRODUCTS, LTD.

DUNCO 35: Head embodies a rectangular-section, well-louvred lamphouse. "T" section column. Friction drive with quick-release for rapid adjustment. Head swings to permit horizontal projection. Single optically worked condenser with provision to clamp glassless negative carrier. Magnification range on baseboard, 1½ to 8 times; 50-mm. f/3·5 Cassar lens with click stops in bayonet-type mount.



Dunco 35

Complete with lens, £23 7*s.* 1*d.*

NORTH STAFFS PHOTOGRAPHIC SERVICES.

ENVOY SUPER: Inclined column to maintain central position of head over baseboard. Head spring counterbalanced, adjusted for height by friction drive. Large lamphouse with universal lamp adjustment. Head rotatable for horizontal projection. Column hinged at base for easy storage.

Transparent red plastic glassless negative carriers pinned flat by spring-loaded single condenser. Focusing by rack and pinion. Maximum enlargement on baseboard with 2-in. lens, 18 times; range of lens panels available or made to order.

Model E2/1, *with cork baseboard, without lens,* £32. *Model E2*/2, *with magnetic baseboard on which paper is held flat by magnetic bars,* £32.

PHOTO DEVELOPMENTS, LTD.

EXACT 35: High-quality instrument by Veigel. Indirect illumination in which light is reflected by mirror through double condenser, thereby keeping it cool. Optical rangefinder focusing. Enlargement range 1½ to 7 times.

With Rodenstock Ysar, f/3·5, *coated, and with click stops,* £60 19*s.* (*without lamp*).

NEVILLE BROWN & CO., LTD.

EXACTUM NO. 1: Simple, inexpensive fixed-focus enlarger, constructed of cardboard sections, the smaller sections packing inside the others for storage. Makes postcard-size prints from 24 x 36 mm. negatives. Neatly finished in grained paper. Exposure made by waving a 100-watt lamp about a foot above the negative. £2 11*s.*

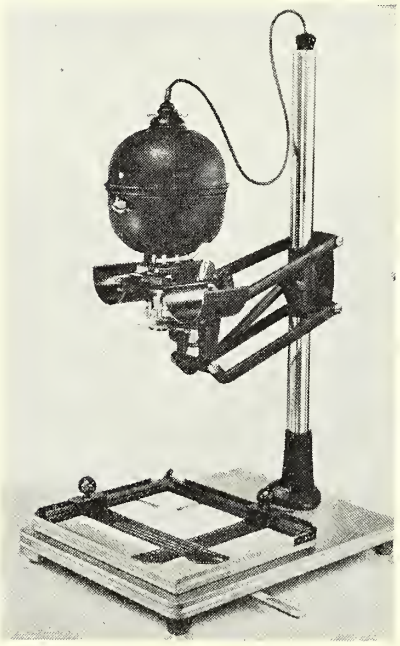
JOHNSONS OF HENDON, LTD.

J

FOCOMAT: A *de luxe* instrument. Spring - compensated parallelogram action. Large, well-ventilated lamphouse. Lamp-centring adjustment. Auto-focus range, 2 to 10 times. Compensation for official tolerance in lens focal length. Intended for 50-mm. Leica or other lenses. Single optical condenser with rise and fall. Degree of enlargement shown on scale. Negative carrier for the enlarger is glassless.

Model 1*c*, £57 10*s*. 8*d*.; *Model* 1*c Color, with filter slide for making colour enlargements; enlargement scale illuminated; on baseboard;* £76 14*s*. 8*d*.

E. LEITZ (INSTRUMENTS), LTD.



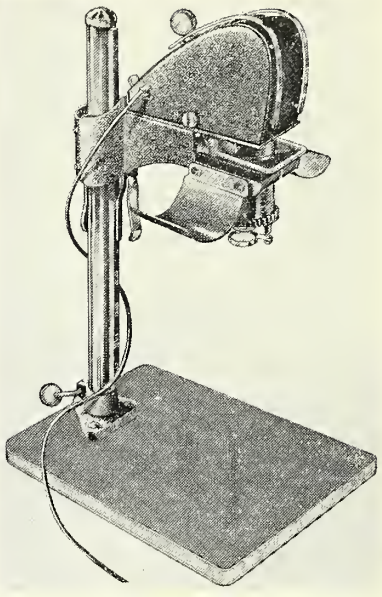
Focomat 1c

GAMMA THIRTY-FIVE DE LUXE: Roomy spun - aluminium lamphouse carried on die-cast aluminium alloy bracket with quick release cam. Twin parallel focusing guides. Friction-drive focusing movement; glassless negative carrier. 2¼-in. diameter condenser (optical) of 3¼-in. focus. Magnification range on baseboard, 1 to 10 times.

Without lens, £12 10*s*. 5*d*.; *with doublet lens,* £12 17*s*. 8*d*.; *with Gnome f/6·3 anastigmat,* £15 11*s*. 4*d*. *Wilon, Wray and Dallmeyer lenses fitted—see Gnome price list.*

GNOME PHOTOGRAPHIC PRODUCTS, LTD.

OBERLAND 35: Horizontal lamphouse (direct illumination). Head swivels to permit horizontal projection. Quick-release lever for rapid height adjustment of head or friction drive for fine setting. Glassless film guide, the single optically worked condenser serving as pressure plate. Film troughs attached by "keyhole slot" action. Semi-automatic enlargement by reference to scale. Sliding masks for 24 x 24 mm. frames. Enlargement range on base with 2-in. lens, 1 to 9 times.



Oberland 35

With Wilon f/4·5 click-stop coated enlarging anastigmat, £24 7*s*.

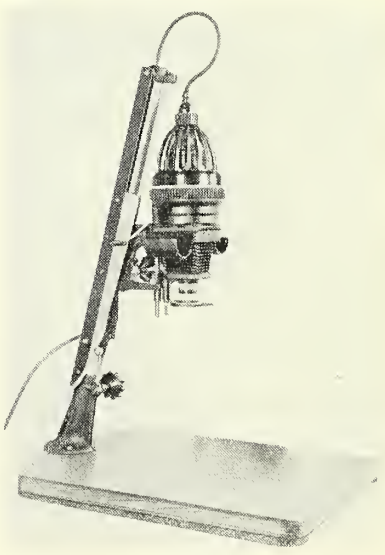
HAYNOR, LTD.

OPEMUS: Inclined tubular - steel column with reinforcing rib serving as guide to cantilever. Height adjustment by friction drive (milled groove of wheel engaging with rib on column). Friction drive focus. Circular type bellows. Lamphouse of unusual design, having double shell, fully light-trapped; outer shell has slots to assist cooling. Lamps automatically centred.

Single optical condenser 2¾ in. diameter to cover negatives up to 40 x 40 mm. Rise and fall to clamp glassless negative carriers that are fully ventilated. Head swivels for correction of verticals or horizontal projection. Negative carriers available for 16-mm. film (aperture 10 x 15 mm.), 35-mm. film (24 x 36 mm.), and non-perforated film 30 x 40 mm. (horizontal), 40 x 30 (vertical), and 40 x 40 mm. Maximum magnification on baseboard, 10 times.

With interchangeable Belar 5·5 cm. f/4·5 anastigmat and carrier, £28.

W. F. DORMER, LTD.



Opematus

OPEMATUS: Automatic focusing version of the Opemus. Auto focus by ramp on column, linkage having trimming adjustment. Similar lighting and optical features. £36.

W. F. DORMER, LTD.

PELCO 35: Ground steel column, plated. Head, including lamphouse, constructed mainly of castings. Bearing sleeve of main bracket internally splined to reduce friction and fitted with four spring balls to prevent "judder" as height is adjusted. Spring-loaded plunger type release (which automatically clamps the bearing on the column when pressure is released). Independent locking screw.

Three-piece cast lamphouse, upper dome removing for access to lamp and with universal adjustment. Cylindrical body attached by its lug to the bracket, located by dowels and fastened by finger screw. Lower section carries condenser, which has bayonet fitting for ready removal.

Negative carrier consists of film guide, with troughs, screwed to the stage, and loose masking plate located by pegs. The plate, machined to avoid Newton's rings, holds film flat under pressure applied by the condenser springs. Pressure released by stirrup-shaped lever. Film inserted from front (no necessity to draw length through). Focusing jacket has accurately cut helix in which a spring-loaded ball bearing engages. Large milled flange for fine control.

An unusual feature is auxiliary column enabling extra height to be obtained or permitting horizontal projection. Magnification on baseboard, up to 15 times. Lens mount threaded for Leica or Ross Resolux, but adapters available for Wray and Dallmeyer lenses.

Price without lens, £27 6*s*. 7*d*.

PHOTOGRAPHIC ENGINEERING LABORATORIES CO., LTD. (Distributed also by Neville Brown & Co., Ltd.).

PELCOMAT II: Automatic focusing version of the Pelco series. Lamphouse and negative carrier similar to those of Pelco. Spring-compensated parallelogram movement. Auto focus range, 2 to 10 times, but greater magnification possible by projecting over the edge of the table, focusing manually.

Without lens, £44 14*s*. 5*d*.

PHOTOGRAPHIC ENGINEERING LABORATORIES CO., LTD., and NEVILLE BROWN & CO., LTD.

PULLIN: Cast bracket with rapid-trigger release sliding on plated column; swivelling head for correction of verticals or horizontal projection. Efficiently ventilated lamphouse for 60- and 75-watt lamps. Rack-and-pinion focusing. Glassless carrier clamped by pressure of condenser. Film carrier rotatable to

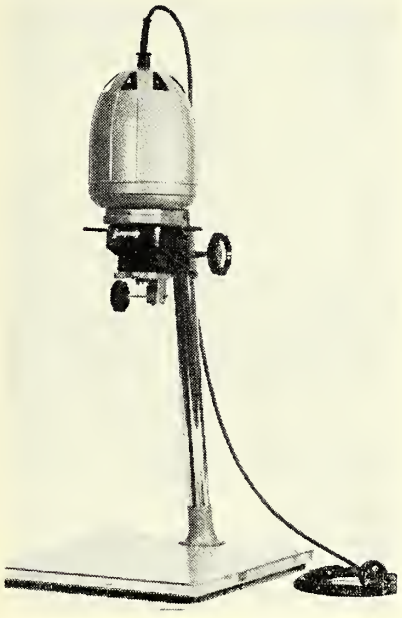
facilitate framing. Lens flange also rotates to enable aperture scale to be placed conveniently. Swinging filter with clock registration. Magnification up to 10 times on baseboard.

Price without lens, £27 11*s.* 10*d.*

PULLIN OPTICAL CO., LTD.

RAJAH OS: Sloping column. Head carried on moulded plastic bracket. Friction drive by wheel engaging in longitudinal slot in column. Friction drive bellows extension for focusing. Glassless negative stage with stainless steel presser plate. Single optically worked condenser.

Double-shell lamphouse, outer shell slotted for ventilation and dissipation of heat. Fully coated three-element lens, f/4·5. Three-position lever, colour coded, sets stop to f/4·5



Rajah OS

or f/6·3; centre position sets internal safety filter. Mask for 24 x 24 mm.; easily dismantled for storage.

Complete with rubber flex and substantial torpedo switch, £22 7*s.* 6*d.*

J. J. SILBER, LTD.

RAX O: Inclined profiled column. Friction-drive height adjustment. Integrally cast bracket and finned lamphouse (front of latter removes for access). Size and exposure-scale on column illuminated by beam from lamphouse. Magnification on baseboard 1 to 8 times. Standard lens, 60-mm. f/4·5 Peplostar with Waterhouse stops. Provision for insertion of filters for colour printing.

Price £27 6*s.*

J. J. SILBER, LTD.

R & S: Forty-in. ground and plated column. "Onc-hand" adjustment of cantilever arm (pressure pad conveniently placed so that grasping the arm releases it while adjustment of height is being made); automatic locking when hand removed. Sleeve sliding on column has adjustable bushes for individual requirements or taking up of wear. Large lamphouse with provision for lamp adjustment. Retractable condenser. Glassless negative carrier. Four-start helical focusing jacket. Oak baseboard with black cork insert. Enlargement range, 2 to 20 times.

Price without lens, lamp or filter, £32. *Swing filter,* £1 5*s.* 4*d.*

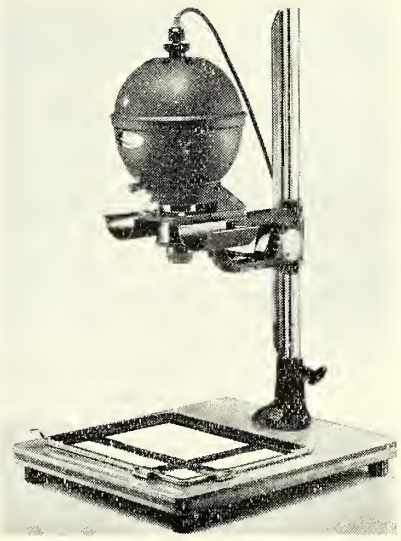
REID & SIGRIST.

UNIVERSUM II: Primarily intended for low-voltage lamp (12-volt, 36-watt) from accumulator or a.c. transformer, but alternative lamphouse for direct mains lamps is available. Cast aluminium lamphouse, well finned. Optical condensers, 2¼-in. diameter x 3½-in. focus. Glassless negative carrier. Multi-start thread focusing movement. Table model has 21-in. column with enlargement range of 2 to 9 times linear. Portable model has 14½-in. column and packs into wooden case. Range, 2 to 5 times, or with 7-in. extension column, 4 to 8½ times.

Table model, Leica flange, without lens, £19 17*s.* 6*d. Portable model, Leica flange, without lens,* £22 3*s.* 10*d. Extension column (both models),* £1 3*s.* 4*d. Transformer,* £2 14*s.*

GNOME PHOTOGRAPHIC PRODUCTS, LTD.

VALOY: Ground, nickel - plated column with guide web. Rapid self-locking and fine adjustment of height. Large, well-ventilated lamphouse hinged at base for easy access to condenser. Spring-loaded bayonet-fitting condenser. Interchangeable masks for negatives up to 4 x 4 cm.



Valoy

Threaded for Leica-fitting lenses. Helical focusing. Range, 2 to 10 times on baseboard; up to 28 times if the column of the enlarger is rotated in its base.

With 65-*cm.* (25½-in.) *column,* £30 14*s. With* 80-*cm.* (31½-in.) *column,* £32 10*s.*

E. LEITZ (INSTRUMENTS), LTD.

WASP MINIATURE: Twenty-in. light-alloy column. Split-grip bracket guide controlled by fluted wheel. Lamphouse takes 40-watt bulb.



Wasp Minor

Glassless carriers for negatives up to 3 x 4 cm. (16 on 127 format). Helical focusing movement. Magnification on baseboard, up to 10 times. Cord with switch.

A version with a shorter focusing jacket and flange for use with Leica lenses is available at the same price. Finetta flange is available for the Leica model.

Without lens or lamp, £9 2*s.* 10*d.; Finetta flange,* 12*s.; extra negative carriers,* 10*s.* 8*d. each.*

R. F. HUNTER, LTD.

WRAYFLEX: (a) MANUALLY-FOCUSED MODEL. Precision - ground steel column, heavily plated. Bracket and lamphouse are machined alloy castings. Lamphouse consists of three sections: upper dome removable for access to lamp; cylindrical body lifts away to provide access to the condenser, which is fitted in spring-loaded bayonet mount. Film held flat by spring pressure of condenser unit via relieved-pressure plate designed to obviate Newton's rings.

Splined bracket bearing fitted with spring-loaded ball bearings to provide judderless passage up and down the column. Focusing jacket has machined helix engaging with spring-loaded ball for smooth, virtually non-wearing action. Supplementary column to enable head to be raised to greater height or to be arranged to project horizontally—either vertical or horizontal frames.

£27 6*s.* 6*d., without lens.*

(b) AUTOMATIC FOCUSING MODEL.

Lamphouse and condenser assembly similar to above. Parallelogram bracket operating bellows-focusing adjustment through a cam. Magnification range, auto, up to 10 times. Greater enlargement is possible by manual focusing.

Without lens, £44 14*s.* 4*d.*

WRAY (OPTICAL WORKS), LTD.

6 x 6-cm. MODELS

AMATO Automatic: Generally similar in design to Amato 35-mm. model.

Fitted Steinheil Cassar f/3·5 colour-corrected lens, £39 19*s.*

LUMINOS, LTD.

DUNCO "66": Similar to 35-mm. model but fitted with double condenser in "airflow" mount. Hinged metal-framed glass sandwich-type negative carrier with guides for 35-mm. film. Masking blades incorporated in negative stage.

Fitted f/3·5 Cassar, £31 8*s.* 1*d.*

NORTH STAFFS PHOTOGRAPHIC SERVICES.

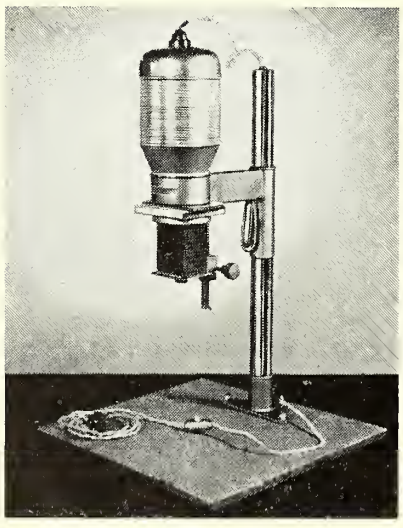
ENVOY SUPER E1/3 and E1/4; see E1/1, E1/2, in Multi-format section, page 287.

EXACT 66/OL: Head similar in design to 35-mm. model, but runs on double column and is supported by wire cable.

With f/3·5 coated Rodenstock Ysar lens, £77 16*s.* 5*d.*

NEVILLE BROWN & CO., LTD.

JOHNSON V7: 1½-in. diameter plated column attached to under-baseboard steel chassis. Head adjustment by



Johnson V/7

quick-release hand grip, self locking. Spun aluminium lamphouse. Listed as fitted with diffuser. Condenser supplied as extra. Friction-drive focusing, with square bellows extension. Spring-loaded negative stage. Glass-plate negative carrier with ground edges. Non-slip composition baseboard 23 x 17 in.

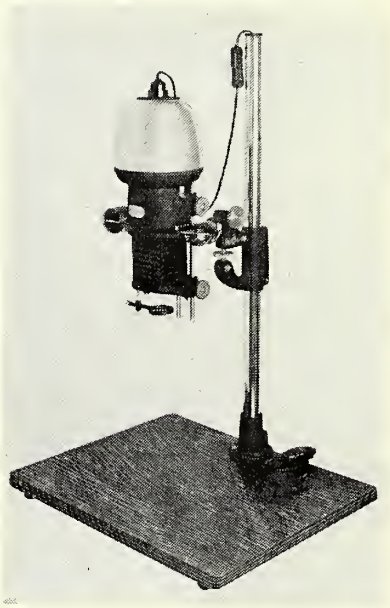
With diffusers but without lens, £15 4*s.* 9*d.*; *with Wray f/6·3, 3¼-in.,* £18 17*s.* 7*d.*; *with Dallmeyer f/4·5,* £23 17*s.*; *optically worked condensers with spacer,* £1 15*s. per pair.*

JOHNSONS OF HENDON, LTD.

OPEMUS: Design follows the lines of the 35-mm. model; standard equipment, interchangeable Belar f/4·5, 75-mm. lens, swing filter, double condenser, 98-m.m. (4 in.) diameter; universal negative carrier and set of masks, 24 x 24 mm., 24 x 36 mm., 30 x 40 mm., 40 x 30 mm., 40 x 40 mm. and 45 x 60 mm. (vertical). Carrier has pegs to locate films of different widths, Masks and carrier automatically centred. £36.

OPEMATUS: Similar design to 35-mm. model. Standard equipment as for Opemus described above. Auto focus up to 6½ diameters. £40.

W. F. DORMER, LTD.



Pullin A or B

PULLIN, Models A and B: Difference between two models is height of column and size of baseboard: A. 40 in. and 21 x 25 in. respectively; B, 30 in. and 15¼ x 19½ in. Bracket incorporates a hand-grip quick-release and self-locking feature and micro-tilting device for correction of verticals in projected image. Head can also be swivelled to a horizontal axis. Hair-line zero indices are engraved on swivelling mounts.

Baseboard weighted to enable head to be safely rotated, allowing extra large magnifications to be projected over the edge of the bench. Interchangeable negative carriers for 24 x 24, 24 x 26, 56 x 40, 40 x 40, 60 x 40 and 60 x 60 mm. are available. They have spring-loaded guide pins which retract when the condenser descends.

Without lens: Model A, £38 18*s.* 5*d.*: *Model B,* £36 19*s.* 4*d.*; *alternative negative carriers,* £3 4*s.* 11*d. each.*

PULLIN OPTICAL CO., LTD.

SIXTY-SIX DE LUXE: Sturdily built. Cast bracket has quick-release and self-locking feature characteristic of Gnome enlargers. Large lamphouse, well ventilated. Twin focusing guides with friction drive.

With diffusing screen, condenser mount and spacer, swing filter and lens flange, £13 17*s.* 8*d. With doublet lens,* £14 7*s.* 7*d., f/7·7 anastigmat,* £17 18*s.* 2*d. Other lenses available. Condenser lenses,* 32*s. per pair.*

GNOME PHOTOGRAPHIC PRODUCTS, LTD.

RANGEFINDER SIXTY-SIX: Specification as for Sixty-Six de Luxe, but negative stage incorporates optical focusing device. When negative carrier is drawn forwards, a line of light is projected on to the picture plane; if line is broken, negative plane is not sharply focused. Focus is adjusted until the line is continuous, negative carrier is then pushed back, and image sharply focused.

With diffusion screen, condenser mount and spacer, filter unit and lens flange, £17 15*s.* 6*d. Condenser lenses, 3¾-in. diameter,* 32*s. per pair.*

GNOME PHOTOGRAPHIC PRODUCTS, LTD.

UNITAS: Specification generally similar to Universum II (see 35-mm. section).

Table model, with Leica flange, without lens, £22 1*s.* 3*d.*; *portable version,* £24 8*s.* 11*d.*

GNOME PHOTOGRAPHIC PRODUCTS, LTD.

WASP JUNIOR DE LUXE: Cast bracket with trigger release slides on 30-in. column. Focusing by friction drive and bellows extension. Double condenser of heat-resisting glass. Head rotates through 90° for horizontal projection. Magnification on baseboard with 3½-in. lens, 9 times; with 2-in. lens, 14 times. For use with 35-mm. film, a 2½-in. diameter condenser in special mount is available. Glassless negative carrier supplied for 35-mm.

Without lens, £18 7*s.*; *2½-in. condenser,* £2 3*s.* 1*d.*

R. F. HUNTER, LTD.

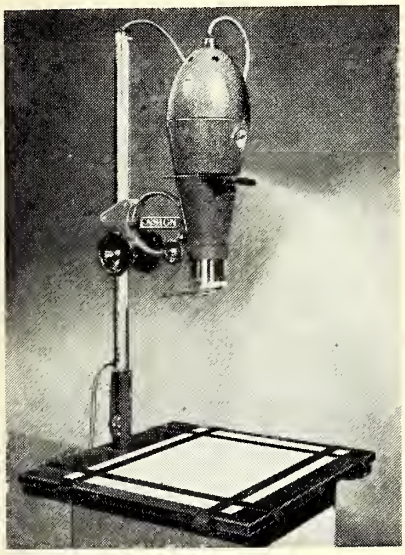
2¼ x 3¼-in. MODELS

AUTOFOCO: Parallelogram motion giving an automatic focus range of 2 to 5½ diameters. Scale of enlargement indicated on a dial. Bookform plate-glass negative-holder. 4½-in. diameter double optical condenser. Initial adjustment to compensate for tolerance in focal length of objectives and trimming for critical or soft focus.

Without lens, £57 6*s.* 8*d.*; *with 11-cm. f/4 Ross Resolux,* £75 1*s.* 5*d.*

PHOTO SCIENCE, LTD.

ENSIGN STANDARD: Head travels on column by rack-and-pinion movement. Column may be rotated through 180° by easy lift device for projection over table edge. Large lamphouse with safelight window. Fine adjustment focusing by handwheel. Metal negative-holder with single self-locating optical glass plate. Defino focusing aid. Paper size-chart on baseboard. Spring-clip paper masks. Prints up to 12 x 15 in. on baseboard using 105-mm. coated Ross 4-element lens, f/4·5. Lens mount engraved to indicate relative exposures for each of the six stops.



Ensign Standard

Complete with lens, £26 16*s.* 3*d.*

ROSS ENSIGN, LTD.

EXACTUM No. 1: Simple fixed-focus enlarger. Cardboard construction, as described in 35-mm. section (see Exactum No. 2). Makes postcard-size enlargements from $2\frac{1}{4}$ x $3\frac{1}{4}$ in. negatives; $3\frac{1}{8}$-in. square prints from $2\frac{1}{4}$-in. square negatives; $2\frac{3}{8}$ x $3\frac{1}{2}$ from Vest Pocket or half-120; or $1\frac{1}{2}$ x $2\frac{1}{4}$ from 24 x 36 mm. frames.

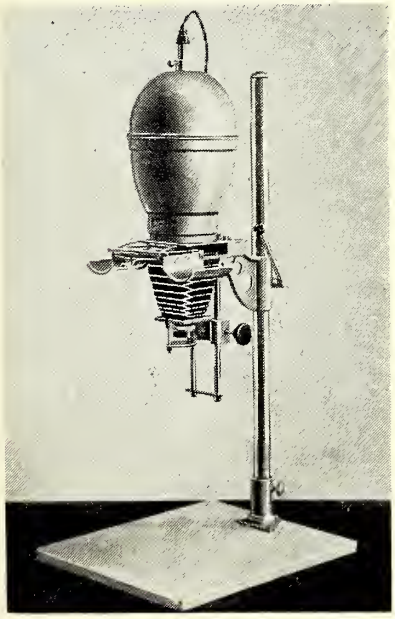
Price £2 11*s. Set of masks,* $2\frac{1}{4}$ x $2\frac{1}{4}$, $2\frac{1}{4}$ x $1\frac{3}{8}$ *in. and* 24 x 36 *mm.* 7*s.* 6*d. per set.*

JOHNSONS OF HENDON, LTD.

JOHNSON V8: Design similar to V7. Baseboard 20 x 20 in.; takes 4-in. lens and $4\frac{1}{2}$-in. condenser.

With diffuser, without lens, £17 17*s.* 9*d.; condenser,* £2 10*s. extra. Wray and Dallmeyer lenses listed.*

JOHNSONS OF HENDON, LTD.



Alpha Universal

MULTI-FORMAT MODELS

ALPHA UNIVERSAL: Design and appearance similar to Sixty-Six de Luxe. All negative sizes from 35 mm. to $2\frac{1}{4}$ x $3\frac{1}{4}$ in. catered for by provision of condenser conversion units for $2\frac{1}{4}$, $3\frac{1}{4}$ or $4\frac{1}{2}$-in. diameter glasses. May be fitted with objectives of from 2 to 4 in. focal length.

With flange, diffuser filter and condenser mount, £13 17*s.* 8*d.; condenser conversion units,* 12*s.* 3*d. each, glasses extra—35-mm.,* £1; 6 x 6 *cm.,* £1 12*s. per pair.* $4\frac{1}{2}$*-in. diameter,* £1 17*s.* 6*d. per pair.*

GNOME PHOTOGRAPHIC PRODUCTS, LTD.

ALPHA RANGEFINDER: Essentially similar to Alpha Universal, but embodying rangefinder focusing device (see Rangefinder Sixty-Six, p. 286).

With condenser mount, filter unit and flange, £17 15*s.* 6*d. Condenser items as above.*

GNOME PHOTOGRAPHIC PRODUCTS, LTD.

ENVOY JUNIOR: Simple basic enlarger; 30 in. x $1\frac{1}{4}$ in. column. Bracket and lamphouse of light alloy castings. Cable-drive focusing, twin guides retracting into body of lamphouse. Conical rubber bellows. Moulded rubber negative - carrier with two glasses arranged to accept 35-mm. or roll-film negatives up to $2\frac{1}{4}$ x $3\frac{1}{4}$ in. in strip or single exposures. Non-scratch plastic film troughs. Opal diffusion screen supplied as basic equipment, but provision made for condenser lenses for 35-mm. 6 x 6 cm. and $2\frac{1}{4}$ x $3\frac{1}{4}$-in. formats. Range of suitable lenses offered.

With diffuser, without lens, £13 18*s.* 3*d.*

PHOTO DEVELOPMENTS, LTD.

ENVOY SUPER E1/1, E1/2: Inclined pillar. Spring counterbalance to head. Large lamphouse with 5-in. diameter condenser. Built-in negative masking. Glassless negative carriers for 35 mm. and 6 x 6 cm.

Above applies also to models E1/3 and E1/4 ($2\frac{1}{4}$-in. square models).

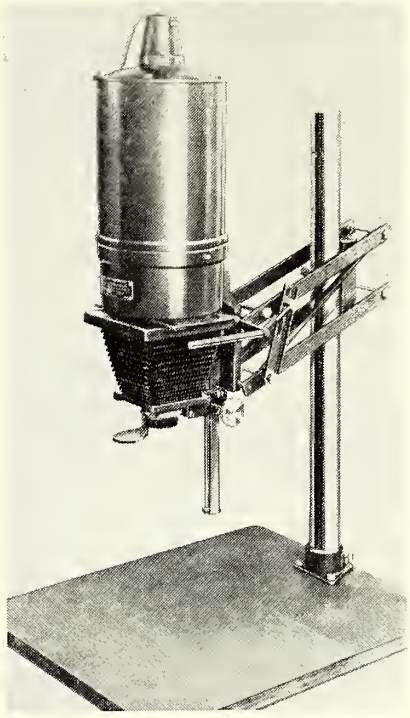
Models E1/1 and E1/3 have cork baseboards, E1/2 and E1/4 magnetic baseboards, on which magnetic paper-holding bars are used.

Price of all four models, without lens, £39 12*s.* 4*d. Conversion sets, E1/1 and E1/2 to* 35 *mm.,* £4 11*s.* 8*d.*

PHOTO DEVELOPMENTS, LTD.

K.L.B. UNIVERSAL: Parallelogram bracket, spring-counterpoised. Large cylindrical lamphouse with provision for lamp adjustment. Diffuser fitted as standard but provision made for fitting condensers (essential to cover $2\frac{1}{4}$ x $3\frac{1}{4}$ in.). Friction-drive focusing by bellows extension. Quick-release interchangeable lens panels. Standard negative carrier, plate-glass, bookform, with spring clips. Glassless carrier for 35 mm.

Standard enlarger with uncut lens panel, swing filter, 5-in. diameter opal diffuser and glass negative carrier, £16. *Condenser unit for* $2\frac{1}{4}$ x

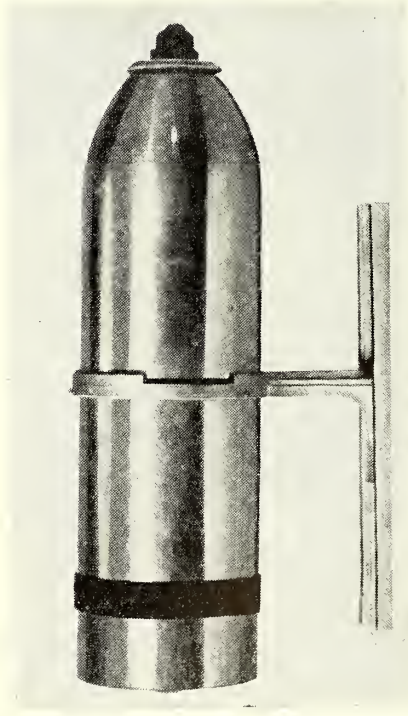


K.L.B. Universal

$3\frac{1}{4}$ *or* $2\frac{1}{4}$*-in. square,* £3 10*s.* 3*d.; 35-mm.,* £2 10*s.* 9*d.*

K. L. BIGGS PRECISION EQUIPMENT, LTD.

LEPIDOPTIC, MARK II: Inexpensive enlarger of unconventional design. Fitted to wall on multi-position channel-shaped member. Diffusion by prismatic glass disc in conjunction with grainless acrylic opalescent disc. Diffusion system may be re-



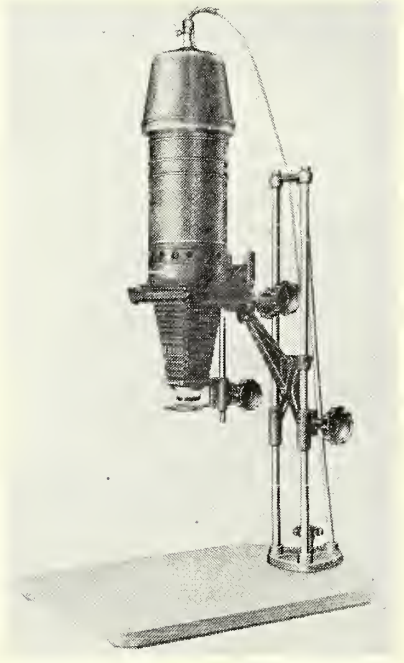
Lepidoptic, Mark II

placed by condenser. Negative sandwiched between glass plate and acrylic diffuser. Telescopic lens-tube with rubber sleeve acting as light seal and friction pad. Standard lens, 4¼-in., f/9·9 cemented doublet, but will operate with lenses of from 1 to 8 in. focus.

Basic enlarger, £6 19*s.* 6*d.*; *2¼-in. condenser for* 35 *mm.,* 13*s.* 6*d.*; *4½-in. optical condensers for* 2¼ x 3¼ *in. and smaller,* £2 10*s. the pair.*

CROMWELL PRECISION OF READING.

MAGNIFAX: Tall lamphouse with ample adjustment for lamp. Column consists of two vertical members with inclined brace mounted on ro-



Magnafax

tatable triangular cast base. Friction drive adjustment of head. Bracket has four bearing sleeves on column.

Standard equipment: interchangeable Belar 10·5-cm. f/4·5; swinging red filter; interchangeable double condenser; universal negative carrier with set of nine masks from 24 x 24 mm. to 6 x 9 cm.; adapter for glass negatives 6·5 x 9 cm. Lamphouse lifted via handwheel for insertion of carrier and lowered to apply pressure. Long bellows extension. Friction-drive adjustment. A most versatile piece of equipment.

Price £44.

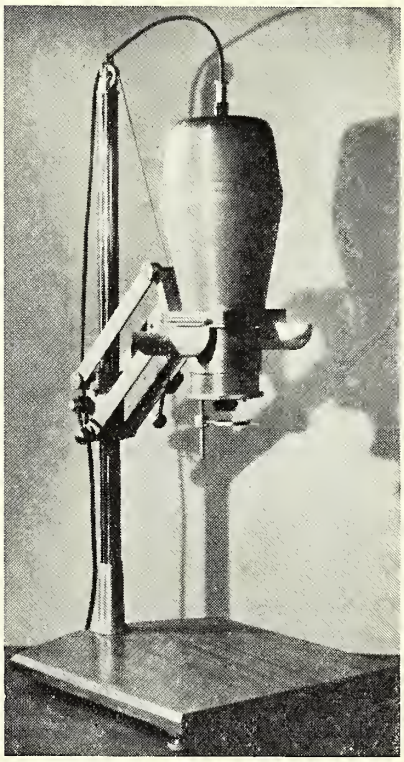
W. F. DORMER, LTD.

MINOR: Simple horizontal enlarger. Fabricated from sheet. Cylindrical lamphouse with baffled vent on top. Telescopic tubular focusing jacket of the simple draw type. Channel-shaped base. Glass sandwich negative carrier.

With diffuser and lens flange, £5 19*s.* 6*d.*; *with* 4*-in. doublet,* £6 9*s.* 6*d.*; *Wray* 4*-in. f/*6·3, £10 3*s.*; *Gnome* 3¼*-in. f/*7·7 *anastigmat,* £10. *Other lenses listed. Condenser mount,* 6*s.* 8*d.*, 4½*-in. diameter glasses,* £1 17*s.* 6*d. the pair. Lens panel for* 2*-in. lenses,* 7*s.* 2*d.*

GNOME PHOTOGRAPHIC PRODUCTS, LTD.

M.P.P., Models 1 and 3: No. 1 designed for 6 x 6 cm. and 35 mm.; No. 3 for 2¼ x 3¼ and 2¼ x 2¼-in.



M.P.P. enlarger

Parallelogram bracket sliding on column. Helical focusing jacket. Glassless film carriers. Swing filter. Double condensers. Lens panels normally threaded for Ross lenses but adapters available. Cup adapters for short-focus lenses.

Model 1*E for* 35*-mm.,* 2¼ *in. condenser,* 18 x 16 *in. baseboard,* 30*-in. column with negative carrier, less lens,* £26 13*s.* 4*d.*; 1*G as above but with* 24 x 24 *in. baseboard,* £29; 1*P, as* 1*G but with* 40*-in. column,* £30 13*s.* 4*d.*; 1*D for* 2¼ x 2¼, 3½*-in. condenser,* 18 x 16 *in. baseboard,* 30*-in. column,* £26 13*s.* 4*d.*; 1*R, as* 1*D but* 24 x 24 *in. baseboard,* £29; 1*N, as* 1*R but* 40*-in. column,* £30 13*s.* 4*d.*; *Model* 3, *for* 2¼ x 3¼, 4½*-in. condenser,* 24 x 24 *in. baseboard,* 30*-in. column,* £33 6*s.* 8*d.*

MICRO PRECISION PRODUCTS, LTD.

PERILUX: Robustly constructed mainly from die-castings. Spring-tensioned parallelogram bracket with 9-in. overhang and 7-in. vertical movement. Head slides on 32-in. column allowing exceptionally large range of adjustment. Tall die-cast lamphouse allowing ample adjustment of lamp when used with 2½-in. and 4½-in. condensers. Friction-drive focusing, guide moving upwards leaving clear working space between lens and baseboard. Bayonet-catch interchangeable lens panels.

Die-cast film carrier with bars to locate individual negative carriers; non-warp synthetic timber baseboard 22 x 18 in.

Basic instrument with glass sandwich negative carriers up to 2¼ x 3¼ *in., condenser housing and one lens panel, or with glassless* 35*-mm. carrier and* 2½*-in. condenser mount,* £21; *optically worked condenser lenses,* 4½*-in.,* £1 17*s.* 6*d. per pair,* 2½*-in. single deep curve lens,* 14*s.*; *glassless negative holder,* 19*s.* 10*d.*; *lens flange for Periflex, Leica and similarly threaded lenses,* 1, 1¼ *and* 1½*-in. RPS thread and for Corfield achromat,* 6*s.* 3*d. each. Corfield enlarging aehromats,* 2¼, 3¼ *and* 4¼*-in. focus,* £1 7*s.* 10*d. each.*

K. G. CORFIELD, LTD.

PREFECT MINOR: Die-cast bracket with quick-action friction clutch, sliding on 36-in. column. Friction-drive focusing bellows extension. Cold cathode lighting unit providing soft, even, highly actinic light and obviating need for condensers. Transformer housing forms base for column, making for greater stability. Provision for tilting head to correct verticals in projected image. Glassless film carriers contained in drawer. Masks for 35-mm. and 6 x 6-cm. frames. Interchangeable lens panels. Accepts lenses from 2 to 4¼ in. focus.

Complete with eold eathode unit, negative carrier with one mask, less lens, £26 10*s.*; *additional masks,* 19*s.* 11*d. eaeh; addition lens panels,* 4*s.* 8*d. eaeh.*

PHOTO-SCIENCE, LTD.

STERLING: Sheet-steel lamphouse with spun aluminium cap and reflector. Cast bracket with screw clamp device. Sheet-steel negative carrier with film troughs and two glass plates. Masks available for 6 x 6 cm. 6 x 4½-cm. and 35-mm. Friction-drive focusing. Twin guides. Bellows extension. Centralising clips for condenser.

With diffusing sereen, less lens, £10 17*s.* 3*d.*; *with doublet lens,* £11 10*s.* 7*d.*; *eondenser mount,* 6*s.* 8*d.*; *alternative masks,* 6*s. eaeh; swing filter unit,* 11*s.* 11*d.*; *eondenser glasses,* 4½*-in.,* £1 17*s.* 6*d. pair; eondenser eonversion units,* 12*s.* 3*d. eaeh; glasses for* 35*-mm., £1 pair: for* 6 x 6 *cm.,* £1 12*s. pair.*

GNOME PHOTOGRAPHIC PRODUCTS, LTD.

Makers' Addresses

BIGGS, K. L., PRECISION EQUIPMENT, LTD., 87 Goldstone Villas, Hove, Sussex.

BROWN, NEVILLE & CO., LTD., 77 Newman Street, London, W.1.

CORFIELD, K. G., LTD., Merridale Works, Merridale Street, Wolverhampton, Staffs.

CROMWELL PRECISION OF READING, Cardigan Road, Reading, Berks.

DORMER, W. F., LTD., Florence Street, Hendon, London, N.W.4.

GNOME PHOTOGRAPHIC PRODUCTS, LTD., 354 Caerphilly Road, Cardiff, Rhiwbina 1501-2.

HAYNOR, LTD., 167 Greyhound Road, London, W.6.

HUNTER, R. F., LTD., 51 Gray's Inn Road, London, W.C.1.

JOHNSONS OF HENDON, LTD., Photo Apparatus Division, 35 Brent Street, Hendon, London, N.W.4.

K.L.B. (see BIGGS).

LEITZ, E. (INSTRUMENTS), LTD., 20 Mortimer Street, London, W.1.
LUMINOS, LTD., 45 Belsize Lane, London, N.W.3.
MICRO PRECISION PRODUCTS, LTD., 145 London Road, Kingston-on-Thames, Surrey.
NEVILLE BROWN (see BROWN).
NORTH STAFFS PHOTOGRAPHIC SERVICES, Balls Yard, Newcastle, Staffs.
PHOTO DEVELOPMENTS, LTD., Leonard Road, Handsworth, Birmingham, 19.
PHOTO-SCIENCE, LTD., 10 North End Parade, West Kensington, London, W.14.
PHOTOGRAPHIC ENGINEERING LABORATORIES CO., LTD., Pelco Works, Handcross, Sussex.
PULLIN OPTICAL CO., LTD., Pullin House, South Ealing Road, London, W.5.
REID & SIGRIST, LTD., Braunstone Works, Braunstone, Leicester.
ROSS ENSION, LTD., Clapham Common, London, S.W.4.
SILBER, J. J., LTD., 51 Avenue Chambers, Vernon Place, London, W.C.1.
WILKINS & WRIGHT, LTD., Utility Works, Holyhead Road, Birmingham, 21. Phone: Northern 2974.
WRAY (OPTICAL WORKS), LTD., Ashgrove Road, Bromley, Kent.

ENLARGEMENTS SELL THEMSELVES and EQUIPMENT

If the window display is on the right lines



FEW items are easier to sell to amateur photographers than enlargements—if the dealer goes about the job in the right way. And the right way is to display enlargements, especially those showing only the most important features in the negative. Many snapshotters do not realise that they may have only a part of a negative enlarged, and that "the part is often greater than the whole," because often there is a picture within a picture.

Photographic manufacturers—and photo finishers—have for long realised that the best way to show how much a photograph is improved by enlarging is to show both the small print and the enlargement. The comparison proves how the small details are revealed, and how much the original photograph can be improved by careful shading and printing-up when making the enlargement.

By carrying the idea a step further and displaying an enlargement from the whole of a negative, and beside it an enlargement from a selected part of the same negative, the dealer can convince the amateur photographer that enlargements from his negatives are not only worth while but in fact a necessity if he is to gain the fullest satisfaction from his photography.

The sketch reproduced gives a good idea of the scheme, and shows how it may be worked up into an arresting window display. It is necessary merely to have two enlargements of a size suitable for the window background, mount them on a stout board (hardboard will do) and get a poster artist to draw in the lettering shown (on black or red cut-out arrows), or any variation that may be thought desirable.

The display can also be made to sell enlargers and enlarging accessories if a card is included to indicate that the amateur photographer can do the same sort of thing himself if he owns an enlarger. The amount of equipment shown will naturally depend upon the space available, but if possible an enlarger of popular type should be displayed, together with small items such as masking-frames, focus-finders, dust-covers, "dodgers," lenses, anti-static cloths, foot-switches, dishes, dish heaters and darkroom lamps—in fact anything normally stocked, and for which there is room in the window without overcrowding.

Displays need not be confined to the windows, of course, and repetitions inside the shop on—or adjacent to—the photographic counter will serve their purpose by keeping customers interested while they are waiting to be served.

QUICK-SELLING ACCESSORIES FOR ENLARGING

ONCE an amateur photographer starts making his own enlargements he is entitled to be promoted (so far as the dealer is concerned) into the class usually labelled "serious amateurs." There is then no end to his enthusiasm, and he is soon ready for purchasing the many enlarger accessories that are either essential to his hobby or make it easier.

When enlargers are sold ancillary equipment should be exhibited, described and demonstrated.

Types of Accessories

In the main there are three classes of goods that may be considered as accessories for enlarging: integral parts; accessories for use when making enlargements; items for use in processes after the exposure has been made.

In the first class are lenses of varying focal lengths; double and single condensers; enlarger lamps of various types and powers; and filters and filter holders. In the second group are a wide range of masking-frames; clockwork, electrical or electronic timers; focus-finders, and footswitches. The third group comprises an even wider range of goods, such as dishes, forceps, measures, darkroom lamps, safelights, and visual timers, to say nothing of the expendable materials like bromide paper and packed chemicals, for which customers return again and again.

Obviously it is not possible to deal with all available items in the categories mentioned above. A few typical examples are singled out, not with any intention of favouring one more than another, but as general illustrations indicative of others in their classes.

High intensity, triple-sprayed enlarging lamps, for instance, which are among goods supplied by JOHNSONS OF HENDON, LTD., Hendon Way, London, N.W.4, are very suitable for amateur photographers because the small size of the bulb enhances print contrast, while illumination is even and printing speed rapid. Messrs. Johnsons also supply Dallmeyer and Wray enlarging lenses of various foci and apertures, with plain or iris mounts, and with or without clicking stops. A smaller item is the enlarger focusing screen of geometrical design, or "half-tone" 120-dot screen. The company also supply condenser lenses of optically polished white glass. NEVILLE BROWN & CO., LTD., Newman Street, London, W.1, can provide plano-convex condensers of Chance white plate glass, as well as Dallmeyer or Wray enlarging lenses and sprayed enlarging lamps.

For the customer who has, say, an Envoy 2½ x 3½-in. enlarger, ILFORD, LTD., Ilford, England, can supply lenses by Ross, Dallmeyer or Wray. Also obtainable is a completely convertible head unit, or separate components, enabling the equipment to be used for enlarging from 35-mm. negatives.

Another useful extra for the amateur with an Envoy enlarger (and there are other makes similarly provided for) is the copying attachment, which consists of two lamps on flexible arms which can be used in place of the projector head. For those who use Multigrade, Ilford, Ltd., supply a simple wire-frame filter holder which is slipped over the enlarger column and may be swung away when not in use.

Accessories for use when making enlargements extend over a wide range, and are available from a great many suppliers. Every enlarger owner should have a good masking-frame, for instance. There is no lack of them on the market. Ilford, Ltd., offer one that takes paper up to 8 x 10 in. in area. It has a sheet metal base and hinged frame. Sliding masks allow enlargements to be made in any size up to the maximum; scales indicate the outside size of the paper.

Messrs. Johnsons have a similar frame, made in sizes up to 16 x 20 in., the smallest being 8 x 10 in. A cheaper version is the unit enlargement masking frame, which consists of a base tray and series of interchangeable masks.

Whenever a dealer sells an enlarger he should automatically sell an enlarger dust cover. These are made of thin plastic, which slips over the head of the enlarger and is drawn up to the column with a tape or cord, serving to keep the equipment free from damp and dust. Typical suppliers are the PULLIN OPTICAL CO., LTD., JONATHAN FALLOWFIELD, LTD., JOHNSONS OF HENDON, LTD., and NEVILLE BROWN & CO., LTD.

The amateur whose eyesight is not so good as it used to be finds a focus finder invaluable. A typical model is that supplied by K. G. CORFIELD, LTD.; it gives twenty-five times as much light for focusing, the image being reflected from a mirror on to a ground-glass screen. The price is such that any amateur photographer can easily afford to buy it. The dealer can rightly say that the man with a manually focusing enlarger cannot afford to be without one of these useful aids to sharp focus, which will soon save its cost in reducing wasted papers caused by inaccurate focusing.

Foot-switches are another "must" for the amateur who makes the best of his negatives by using both hands for "shading" or "dodging." No enlarging enthusiast would work without a footswitch once he has experienced its use and comfort. A useful model is sold by PHOTAX (LONDON), LTD., at a reasonable price. Pressure of the foot on the switch turns on the enlarger light, another switches it off again. In addition, the foot-switch is a "series-parallel" device by which Photoflood lamps can be plugged in and reduced to half brilliance, thus lengthening their life.

For those who need a heavier foot-switch, ILFORD, LTD., supply a heavy-duty model, rated for a loading of 10 amperes. Many other models are, of course, available. There are at least nine firms supplying foot-switches.

So far as the processing is concerned, there are even more suppliers. Darkroom lamps always find a sale when an enlarger is sold, and, as an indication of the many types on offer, JOHNSONS OF HENDON, LTD., list seven, ranging from the Philips natural coloured glass lamps, and the simple electric light cover, to the Allways safelight lamp for wall, bench or ceiling, the hanging safelight lamp for adjustment to any angle, or the larger bench safelight with 10 x 8 in. safelight filter.

There are around two dozen suppliers of processing dishes in enamel, plastic or stainless steel. When selling such items the salesman should produce ancillary accessories such as forceps, print paddles and thermometers.

In fine, when a man has an enlarger there is no difficulty in selling him the straight-forward items that naturally go with the work, and the dealer who does not have a representative range to offer is almost certainly losing money on what should be quick-selling lines.

RULE OF THUMB IS NOT ENOUGH...

SELLING the varied and intricate stocks in a modern photographic department demands an expert and informed salesman.

The hall-mark of the trained photographic salesman is that he has passed the examination instituted by the Photographic Dealers' Association, 46 Bloomsbury Square, London, W.C.1.

The *Modern Course of Photographic Studies* that has been appearing by instalments in THE CHEMIST AND DRUGGIST has been compiled and written by Mr. H. Baines, D.Sc., F.R.I.C., F.I.B.P., Hon. F.R.P.S., and colleagues for the express purpose of preparing entrants for the P.D.A. examination.

When completed, the series is being reprinted, and will be available as a self-contained booklet.

A SECOND CENTURY OF STEREOSCOPY

BY a large proportion of the general public, stereophotography (" 3 D " in popular parlance) is thought to be of comparatively recent origin. Possibly that belief derives from the three-dimensional films exhibited in the Telekinema at the Festival of Britain in 1951. It is largely forgotten that a stereoscope was a frequent object of interest in the Victorian drawing room, but even there it was not new, at least in theory.

So long ago as 280 B.C., Euclid said: " To see relief is to receive, by means of each eye, the simultaneous impressions of two dissimilar images of the same object." Galen, in his *De Usu Partium Corporis Humani* (towards the end of the second century A.D.) reiterated the idea, and Leonardo da Vinci, in *Trattato della Pittura* (1651), refers to the necessity of binocular vision for the appreciation of relief. Gianbaptista della Porta, in 1599, and other early artists, made pairs of drawings that appear to have been essentially stereoscopic pairs, though the method by which they were viewed is not clear.

Wheatstone, pioneer of the electric telegraph, invented a stereoscope and demonstrated it to the Royal Society in June 1838, prior to the advent of photography (apart, that is, from the Nièpce process, which is hardly photography in the accepted sense). When Fox Talbot succeeded in making prints on paper, the opportunity was taken to make pairs of photographic pictures for stereo viewing, and Talbot produced for Wheatstone a number of such pictures of buildings, statues and even persons. It was not, however, until the wet plate process materialised in 1851 that stereophotography began to make progress. It is interesting to note that the Wheatstone type stereo viewer is largely used in studying aero photographs made for the purpose in topographical survey work.

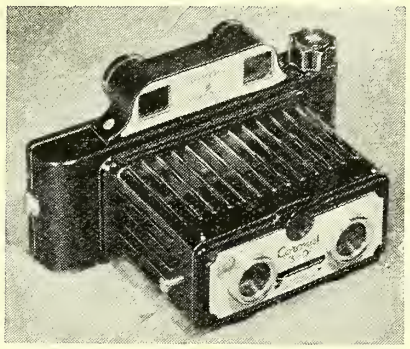
Early " Strict " Stereoscopy

To come to what is more strictly stereophotography —that is the production of stereo pairs at a separation comparable with the separation of the human eyes (generally regarded as 2½ in. or 63–65 mm.)—the first camera specially designed to make stereo negatives appears to have been made by Sir David Brewster in the 1840's (dates in literature vary). Since that date there has been an ebb and flow interest in the subject. No doubt one upsurge of interest came after Queen Victoria agreed to sit for a stereo portrait at the Great Exhibition of 1851. In course of time stereo views of places of interest at home and abroad were produced for sale. They were intended to be used in the popular prismatic hand viewers of the day. Holiday resorts offered stereoscopic local views, much as they offer postcard views today, and families made collections of them. Before radio, television, the cinema or even the gramophone, viewing had little competition.

Various reasons have been put forward to account for the decline in interest that followed. Some say it was because only one person could inspect a view at a time, and because an instrument was necessary for viewing; others blame the lack of uniformity in size of available views. Still others suggest that the decline dates from the appearance of stereo pictures paying more attention to the topography of the human female form than the Victorians would admit as acceptable. Whatever the reason, interest faded so far as the general public was concerned, though a faithful band of amateur photographers retained interest in producing stereograms for themselves and fellow enthusiasts. Today several societies, with members scattered in all parts of the world, circulate portfolios.

A recent rekindling of interest has been brought about by the appearance of 35-mm. cameras and colour films. Unfortunately, since the main sources of such instruments are first America, from which country imports are not yet possible; next Germany, whose expensive cameras are " on quota "; and thirdly France, where the rate of exchange has a restrictive influence on imports, only a trickle of stereoscopic cameras is entering the country.

There is, of course, the British Coronet 3D camera, but it is hardly an instrument for the advanced worker, though it might well prove a means of arousing enthusiasm for



A modern stereoscopic camera, the Coronet 3D, issued by Dufay, Ltd., Boreham Wood, Herts. Two models are available, one synchronised for flash and the other not. Both are moulded from plasticised material by Plasticon Products, Ltd., by a process that takes advantage of the low shrinkage properties of the material.

better things. There is also the A.P.I. beam-splitter, by which any 35-mm. camera can be used as a stereo camera without any modification to the instrument itself. The attachment consists of a plastic box in which are arranged mirrors, rather like a Wheatstone stereoscope in reverse. It makes a stereo pair on a single 24 x 36-mm. frame, which can be cut and suitably mounted for viewing in a hand viewer or even projected. Cine workers, too, are catered for in the Bolex attachments, which allow home movies to be taken and viewed in three-dimensional fashion.

Stereoscopic projection has been made comparatively simple by the invention of polarising material that can be made into thin sheets with high light transmission. By polarising at right angles to one another the beams from the right and left eye impressions and depolarising by means of spectacles worn by the viewer (the windows in the spectacles having their polarising axes suitably oriented), each eye is made to see only the image intended for it, without colour values being affected (in the anaglyph the views can be seen only in monochrome).

Stereoscopes from any Camera

It should not be overlooked that stereoscopic pictures of static subjects can be made quite simply on any camera. All that is necessary is to make two successive exposures (on separate frames, of course), moving the camera sideways by about 2½ in. between them. A shallow wooden tray, the long sides of which are parallel and separated by a distance equal to the length of the camera, can be made quite simply at negligible cost. The sideways travel of 2½ in. is assured by making the length of the tray just 2½ in. greater than the width of the camera. Another type of parallel slide consists of a pair of wooden or metal plates joined by swinging links, parallelogram fashion. The slide should be attached to a tripod or otherwise firmly supported and carefully levelled (levelling is important in stereoscopy).

For the photographic customer who is looking for a new field of experiment, stereoscopy offers unlimited scope.

HEARING SPECTACLES.—A new hearing aid which requires no cord to operate and can be assembled in spectacle frames of standard width, has been produced in America. The complete apparatus, including a battery which, though minute, is claimed to operate for 180 hours without replacement, is contained in one side of the spectacle frame. The apparatus is designed to be worn by deaf persons who may be embarrassed by wearing the more obvious standard hearing aids.

CENTENARY OF A PHOTOGRAPHIC PIONEER

Watkins's early work on factorial development

ALTHOUGH for the past twenty years or so the name of Alfred Watkins has rarely cropped up in photographic circles, it would be a pity to allow the centenary of his birth (January 27) to pass without mention of his part in the evolution of photographic technique.

Watkins is perhaps best known for his discovery, in 1893, that for any given developer the time of appearance of the image gave an indication of the speed at which the developer was working. From that discovery he devised figures, known as "Watkins factors" by which the total time of development of a plate could be determined by multiplying the time taken for the image to make its first appearance by the appropriate factor for the developer.

Dr. Jacobson states in his book *Developing*, "Alfred Watkins' factorial system of development played a valuable and important part in photography for many years. Although today it is but little used, largely because development by inspection has been superseded by more modern methods, it is still of sufficient interest to warrant a description."

Watkins's work on the subjects represented the first steps to raise development from a hit-or-miss to a rational process. He also made a study of exposure problems, and will be long remembered for his "Bee" exposure meter, by which the strength of incident light (daylight, of course) was measured by noting the time taken for a piece of sensitised paper to darken to match a standard tint, and referring that time to a calculating scale. The method was slow, and has given way to more rapid methods of measurement of light. It is interesting to note here that incident light strength is in frequent use today in exposure determination, particularly for reversal processes such as colour and narrow-gauge cinematography.

Although only a self-educated man, Watkins wrote a text book, the *Watkins Manual*, which ran to eleven editions and was reprinted up to 1932. The *Manual* must have helped thousands of embryo photographers to become proficient.

Photography, however, was not his only interest. He ran the family milling business in Hereford, helped to manage a brewery, wrote a treatise advocating the adoption of the decimal system and another pointing out its disadvantages. He was the first in the town to own a motor car, and the first to use electric light. Watkins was an authority on bee-keeping, and prominent in local affairs. As an archæologist he interested himself in prehistoric trackways, and his work resulted in the founding of a national society devoted to their study.

Watkins's first camera was made in his workshop in the mill where also he had a darkroom in which he conducted his experiments. Later he founded a company to manufacture and distribute his exposure meters. Even in the 1930's his Bee meters were being made and sold in all parts of the world. They were used on polar expeditions by Scott, Mawson, and Shackleton. For his work on exposure and development, Watkins received the Royal Photographic Society's premier award, the Progress medal, in 1910. He died in 1935 at the age of eighty. Hereford City Council bought thousands of his negatives. Most of them are of historic buildings, and 5 x 7½ in. in size. Some of them dated back to about 1875—the days of the wet-plate process.

SERVICE AFTER SALES?

Dealers should make sure, before taking goods into stock, that they will get it

By C. J. MANNING

A YEAR ago in this publication I gave my views on the quality of post-war photographic apparatus, compared with its pre-war counterparts. The comparison, I regret to say, did not shed an altogether favourable light on post-war photographic goods. Dealers—I am referring mainly to chemists—whom I meet during the normal course of business were, in the main, in agreement with my observations. But as far as remedying the situation was concerned their attitude was one of gloomy indifference. One chemist (who is typical of many with whom I discussed the subject) stated quite briefly and to the point, "I've enough trouble trying to keep pace with all the fancy medicinal preparations that are making their appearance each and every day without taking on more trouble." On being pressed for further details he told me that, when the first post-war cameras came on the market, he decided to develop the long-neglected photographic side of his business. Things went well at first. He quickly sold all the photographic equipment and sensitive materials that were available to him on the rather restricted quotas then in operation. Trade became brisk, and he gave over one window display completely to photography. Then one customer after another started returning apparatus as unsatisfactory. The situation, he said, could have been kept in hand if the manufacturers concerned had made some effort to deal promptly with goods returned on guarantee. But waiting periods of months were commonplace. Customers calling in week after week to inquire if their cameras, etc., were ready, began to get a little frayed at the edges as they saw the summer gradually disappear. Arguments and bad feeling became the order of the day. That state of affairs, he added, could not be allowed to persist, so he reduced his stock to the barest minimum, carrying the few lines that were cheap and in demand by the greater part of the public.

The position regarding "returns," except for those few manufacturers who have always been up to standard, has improved little since last year. A new development to look out for is the abandonment by importers of currently advertised lines. To quote from one letter received by me from an importer in answer to my inquiry for spare-part replacements, "unfortunately we are not able to supply the item you want, as this particular camera is now discontinued, and there are no spare parts available." The camera concerned is still being offered for sale in the shops, the vendors, presumably, in ignorance of the fact that guarantees cannot be honoured.

In view of the foregoing observations, I would strongly advise retailers before placing orders for unfamiliar apparatus to obtain, *in writing*, a personal assurance from the wholesalers concerned that they have every facility for carrying out an efficient after-sales service, and to refer complaints to trade organisations which, though willing to offer advice and protection to the dealer against handling shoddy goods, cannot do so without co-operation from the dealer himself.

CORRESPONDENCE

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

A LINK WITH 1847

SIR,—It may interest you to know that when I first became associated with my present business, over fifty years ago, I dispensed for a customer a prescription written in 1847. Unfortunately, the old books have been destroyed owing to lack of space for storage.

READING G. B. OSBORNE

COUNCIL CANDIDATES INVITED

SIR,—The Staffordshire and Dudley Regional Group of the Pharmaceutical Society offers a platform at the Swan Hotel, Stafford, on April 4, to candidates in the forthcoming election to the Council of the Pharmaceutical Society. Any candidate who would like to take advantage of the offer should write to the honorary secretary of the group, Mr. A. E. A. Thomas, M.P.S., 44 High Street, Chasetown, nr. Walsall, Staffs.

CHASETOWN A. E. A. THOMAS

DRUG TESTS

SIR,—It has been suggested that the percentage errors in test prescriptions should be interpreted in terms of (a) monetary value involved, and (b) therapeutic value. The idea is like a breath of fresh air entering the opened window of a room thick with the choking fumes of battle, controversy and resentment. We believe we speak for thousands of pharmacists when we state that the testing scheme, as it stands, is more than merely irritating. It is an affront to a professional body with an honourable tradition, and should not be tolerated for another moment. We should be interested to know the reactions of other pharmacists to this suggestion.

BEXLEY, KENT F. WARREN
CHISLEHURST, KENT C. H. WARREN

IMPORTED BRUSHWARE

SIR,—We were glad to see the reference to marking of imported tooth-brushes in your issue dated February 12 (p. 161). Whilst the trade needs to be on the watch for entirely unmarked imported tooth and other brushes, the greater likelihood is that *improperly* marked imported brushes will appear, and the commonest kind of improper marking of such brushes is the one in which the indication of origin is simply moulded in the brush back or handle, without being either conspicuous, as the Act requires, or in a contrasting colour, as laid down in the appropriate marking orders. My Association would be glad to have its attention called to any unmarked or improperly marked imported brushware seen by your readers.

LONDON, E.C.2 J. P. H. WALTON, *Secretary*, BRITISH BRUSH MANUFACTURERS ASSOCIATION

[The need for imported tooth-brushes to bear the name of origin in a contrasting colour was mentioned in the *C. & D.*, February 19, p. 193—EDITOR.]

A " REDUNDANT T "

SIR,—It's good to know that some still venerate
Things old in time and hallowed years;
Though " double-teed and unregenerate "
Six Bettwses sleep on Celtic biers.
But Betws-y-coed can never abide
Being spelt in ancient and aged ways,
And sprightly, single-teed and single " y "d,
Holds high the flag of modern days.
What is this craze for double LETTERING?
And why should Ts and Ys be twins?
Would " MISCELLANY " different sound
If spelt with one " l " for its sins?
Let language die, and language live,
And BETTWSES keep slumbering;
There's few will keep awake at night
Who rack their brains with numbering.

The *Manchester Guardian's* MISCELLANY has but made MATTERS worse! This village has but one " t " and one " y " in its name—and that " y " lies between hyphens only.

LLANRWST RHYS WILLIAMS

SECURE IN ITS WRAPPINGS

SIR,—The makers of tablets were not slow to realise that the demand for medicaments in compressed form would increase almost beyond belief. In fact they contributed materially to their popularity by progressive improvements in presentation. In my apprentice days, now half a century ago, " tablets " usually meant soda-mints or chlorate of potash; they were sold " loose " in paper bags. " Chip " boxes next came into use as containers, then bottles fitted with a cork or screw cap and plugged with a wisp of cotton wool. Later the bottle appeared in a carton, naked at first, but soon to be clothed in transparent tissue. Now each tablet, having possibly been coated by compression also, is often individually sealed in foil. There may be an unintentional advantage in this. If the tablets so wrapped are attractively coloured, that enticement will be hidden from the prying eyes of children. I can think of no further possible improvement—unless it be the provision of a gadget, such as is supplied with a tin of sardines, for the easy release of the tablet from its wrappings when the time comes for it to be swallowed.

CAMBRIDGE BERNARD GILL

BRITISH PHARMACEUTICAL CONFERENCE

SIR,—The annual meeting of the British Pharmaceutical Conference for 1955 is being held in Aberdeen from August 29 to September 2 inclusive. The usual science sessions are being held for the reading and discussion of papers and we shall be glad to receive communications from research workers on subjects of pharmaceutical interest. It would be helpful if those who propose to contribute a paper would let us know the title as soon as possible (last date for receipt of manuscripts, June 14). Contributions accepted for the Conference will be published in the *Journal of Pharmacy and Pharmacology*, and authors will be entitled to a limited number of reprints. Papers should be as concise as possible and a maximum of 4,000 words is suggested.

To ensure adequate time for the reading and discussion of all the papers submitted, the time taken in reading each paper has to be limited. Authors are accordingly asked to submit, with two copies of their manuscripts (but only one copy of diagrams or figures), a *précis* of their contribution (not exceeding 600 words) and to present their paper to the Conference by reading the *précis*. Diagrams and tables need not be included in the *précis*, because by courtesy of the editor of the *Journal of Pharmacy and Pharmacology*, copies of each paper will be available as usual before the Conference meets.

H. G. ROLFE
17 BLOOMSBURY SQUARE, E. F. HERSANT,
LONDON, W.C.1 *General Secretaries*

SHOPKEEPING

SIR,—Why the dissatisfaction in the Commons debate (see *C. & D.*, February 2, p. 232) because pharmacists in retail pharmacies spend part of their time in pharmacy and the rest as shop assistants? How otherwise are they to get a living? There seems to be a notion in some quarters (one may cite a recent request from a certain housing estate for a twenty-four-hour service) that a pharmacist is paid, like the district nurse, or the local doctor a salary, whether he is busy or not. He is, of course, paid strictly by piece work. From N.H.S. his remuneration depends entirely on the number of prescriptions dispensed and not on the hours he spends in his shop (the amounts for rota duties and urgent prescriptions are of little account). If that does not amount to enough to pay him a decent living wage—and in many instances it does not—he is bound to make it up by acting as a retail shop-keeper. Only in the larger establishments is the pharmacist employed entirely on N.H.S. work. There are hundreds (to put it mildly) of smaller shops, many run by a single-handed pharmacist, where the N.H.S. payments even supplemented by pharmaceutical sales, are not sufficient for a decent living. That is a fact of which idealists and reformers are ignorant or overlook. They also forget that, if it were not for those mixed businesses, patients in country villages, small towns,

suburbs and side streets of larger towns would find it very inconvenient to get their prescriptions dispensed, because if the local pharmacist had to depend on the N.H.S. work only he would not be there, and the whole dispensing service would break down. When will these idealists, both in and out of the profession, stop a few moments and reckon up how much money is spent by their own households on strictly pharmaceutical purchases in a year and compare that amount with what is spent with the grocer, butcher, draper, tobacconist, and other shopkeepers. He will find the purely chemist's bill right at the bottom of the list and it always has been so. Pure pharmacy, except in rare instances, never has provided a decent living to its followers and has always had to be propped up. Today it is toilet sundries, cosmetics, photographic goods, etc. In my apprentice days it was paraffin, drysaltery and paints. The prop today is different but it is still required even with N.H.S.

PEWSEY, WILTS MARTIN P. WALKER

PRICE MAINTENANCE POLICY

SIR,—An admirable presentation by Sir Henry Slesser in *The Times* on February 7 gave the legal basis of the "powers and sanctions" which are or may be exercised by trade associations in the enforcement of their price maintenance policy and explained the limitations which trade union law imposes on such enforcement by legal process.

The secretary of the British Motor Trade Association has emphasised the difficulties experienced by individual manufacturers in the motor industry and their consequent resort to the system of collective enforcement through their association. Motor cars and many of their accessories are, necessarily, high priced articles, and the number of dealers and distributors in relation to many other trades is, I believe, comparatively small.

If individual enforcement is impracticable in the motor trade, how much more so is it in the trades manufacturing and distributing proprietary or branded articles having fixed selling prices of shillings rather than pounds —or hundreds of pounds? In a trade such as that represented by this association (founded nearly 60 years ago to deal with the ruinous price cutting then existing), where goods are distributed through a multitude of wholesalers and retailers, in the absence of legislative protection such as exists in the United States, manufacturers have found it impossible to enforce observance of fixed retail prices by any method other than that of associated action.

The members of this association are fully conscious of the "public interest" aspect of their activities. In this connection the following passage from the Greene (Restraint of Trade) Committee's Report seems to me as apposite today as when it appeared in 1931: "The extent to which the exigencies of the day and the trend of social and commercial development may justify legislative interference with the freedom of contract and the right of combination is a matter which attracts acute controversy. But where a particular form of interference is asked for we conceive that the burden of justifying it upon grounds of public policy as distinct from individual grievance lies upon those who advocate it, and that we ought only to recommend a change in the law if we are satisfied that it would be in the public interest. It appears to us that the maintenance of freedom of contract and the right to combine is as much a matter of public interest in the sphere of commerce as it is in that of employment. It is inevitable that this freedom should lead to hardship in individual cases."

LONDON, W.C.1 H. E. CHAPMAN, *Secretary, Proprietary Articles Trade Association*

DUBLIN FAIR TRADE COMMISSION

SIR,—As the Dublin Press reports of the evidence of pharmaceutical chemists, wholesale chemists, etc., before the Fair Trade Commission was so inadequate I feel that the pharmaceutical Press should allot space for a fuller account of the evidence given by pharmaceutical witnesses. I think it most important that such evidence should be published in journals readily accessible to all who are interested in the stability of pharmacy.

DUN LAOGHAIRE, EIRE J. A. O'ROURKE

[Mr. O'Rourke enclosed the following statement on his own evidence, as follows.—EDITOR.]

On January 18 I made a written submission to the Fair Trade Commission:

1. That the price of essential goods be fixed in accordance with the principle of THE JUST PRICE.
2. That the Constitution of the State required adherence to the principle of justice.
3. That competition, *per se*, did not aim at justice.
4. That examples of legislation in other countries should be studied; for example, Queensland, Australia, etc.

In oral evidence next day I quoted from authoritative sources in support of (1) and (3). The Press reported the four headings given above but did not give a word from the authorities cited by me.

On point (1) I quoted Rt. Rev. Mgr. John A. Ryan, D.D.:

"Consumers who want a certain commodity are under moral obligation to pay a sufficient price to enable the producers to live decently. This is the practical rule of just price which was laid down almost six centuries ago by the distinguished Canonist Langenstein" (*Studies*, June 1934).

I then gave my interpretation of Mgr. Ryan's definition: "To meet the complex conditions of modern life I think the old rule could be interpreted something after this fashion: Prices are just when they are sufficient reasonably to compensate all necessary interests (social and economic) from producer to consumer" (*Irish Chemist and Druggist*, May 1943).

The next reference was to my article in *The Irish Chemist and Druggist* (May 1943), in which I had quoted from *The Irish Monthly* (February 1942): "There is only one principle on which to stabilise prices—the principle of justice, the principle that states that this is the price that ought to be paid for this article or for that service. The just price is a protected price; it is necessary to realise this because otherwise men will be allowed to tamper with prices on this excuse or that. If a price is what ought to be paid, men must pay it precisely because they ought. And decent men should be willing to pay what they ought to pay. . . . Then it is the function of Government to protect the just price—or to protect the just price level."

Developing point (3) I read from *Quadragesimo Anno:* "Just as the unity of human society cannot be built upon opposition between classes, so the proper ordering of economic life cannot be left to free competition. From this contaminated source have proceeded in the past all the errors of the economic individualist school." So far as I recall a member of the Commission made a few observations here and I continued with the quotation: "This school, ignorant or forgetful of the social and moral aspect of economic life, held that this must be considered and treated by the State as absolutely free and independent, because it possesses in free competition and open markets a principle of self-direction better able to control it than any human ingenuity. Free competition, however, though within certain limits right and productive of good results cannot be the guiding principle of economic life" (C.S.G., Oxford edition, para. 88).

From *Organised Social Justice*, printed by the Paulist Press, New York, I gave the following excerpt: "Competition does not aim explicitly at justice. As generally carried on it endeavours to buy labour for the lowest wage and sell goods for the highest price. It assumes that this 'enlightened selfishness' will automatically bring about the maximum justice for all.

N.F. (1955) BLUES

PHARMACY and legislation
Have become more closely tied
Since a welfare-conscious nation
Caused its rulers to provide
Poisons laws for its protection,
Rules the chemist mayn't transgress,
Under Parliament's direction—
N.H.I., then N.H.S.

Therefore it is not surprising
That the new N.F. is blue
For by tradition notes comprising
Government's official view
In "Blue Book" form are always carried
"Legal" stamped on every page
—Law and mortar now are married
Gone the green books and the beige.

While we praise the Joint Committee
Leech and druggist, cap and gown,
It does seem such an awful pity
The "Infans" section lets them down.
We hesitate to call them cads, but
—Chivalry, at least, my brothers!
TEN blue pages for small lads, but
Not ONE pink one for the others!

Impressive in its simple neatness
In prefaces that make things clear,
But ONE change sweeping in completeness
—O Galen, revolution's here!
What else we thought the book might lack, O
Inspired committee we take back
What was Mist. Ammon. Ipecac. Co
Is now Mist. Ammon. Ipecac.!

J. J. HAYTON

THE CODEX AND THE FORMULARY

Dr. K. R. Capper addresses an evening meeting of the Pharmaceutical Society

DR. K. R. CAPPER (editor of the Pharmaceutical Society's scientific publications) addressed a meeting of the Pharmaceutical Society in London on February 14 on the British Pharmaceutical Codex, 1954, and the National Formulary, 1955. He was introduced by Mr. H. Steinman (vice-president of the Society) who said that if there was one person more than another who could be said to be the epitome of those who had contributed to the production of the new British Pharmaceutical Codex it was the editor of it and no one was more suitable than he to explain the significance of the changes that had been introduced. The general plan of production of the National Formulary resembled that of the Codex and, as joint secretary, Dr. Capper was eminently qualified to present its new features.

The following is an abstract of Dr. Capper's address.

By Pharmacists for Pharmacists

To a large extent the Codex is produced by pharmacists for pharmacists, but many doctors, representing different aspects of medicine, serve on the Codex Revision Committee and its subcommittees or assist the committees, and many doctors consult the Codex for information on drugs, especially the newer drugs.

The National Formulary, on the other hand, is a joint production by doctors and pharmacists. It was described in the preface to the first edition as a prescriber's handbook. It is essential to prepare the book so that it will serve its purposes under the most severe conditions in which it is likely to be used. These, I take it, are during the crowded surgery hours of the town practitioner and in the dispensary of a retail pharmacy dealing with, possibly, several hundred prescriptions daily. The qualities above all others that are required in a book which is to be used in those conditions are first that the book should contain monographs for all the compounded preparations that are likely to be required in good medical practice; and secondly that the arrangement and style should be such that the prescriber can quickly find a suitable preparation for his patient, and can indicate to the pharmacist in the most concise manner possible what he requires.

The Codex, following the lead of the British Pharmacopœia, has used English for the main titles of monographs whereas the National Formulary has reverted to an arrangement based on Latin titles and uses abbreviations of the Latin names for the titles of individual preparations. That is by no means a case of the right hand not knowing what the left hand is doing, but of two differently constituted committees taking decisions to deal with problems which while to some extent similar are not identical.

Personally I believe that the whole discussion on Latin versus English is a century too late. Latin was officially discarded for medico-pharmaceutical purposes when the first British Pharmacopœia used English instead of Latin for everything except titles. What decision on titles for monographs the Codex Revision Committee would have reached in the absence of a lead from the Pharmacopœia Commission it is impossible to tell. Knowing what was happening to the B.P. the Codex Committee could not, I believe, have done other than it did. Many of the monographs in the B.P.C. refer to B.P. substances, some of which have not been given Latin titles in the Pharmacopœia. To have given those substances as their principal titles in the Codex names not even recognised by the Pharmacopœia might have led to complications which it is difficult to foresee. Latin titles and abbreviations are given for drugs and preparations and anybody who wants to use them can do so.

From an editor's point of view Latin has one great advantage: the adjectives follow the nouns. In English the same happy circumstance does not occur. We have had some anxious times trying to decide where people would look for burnt sugar, dried yeast and industrial methylated spirits, knowing that whatever decision we made about half the users would think it absurd. Criticisms of the N.F., 1952, were to some extent due to the fact that the bold main titles of formulas did not commence with the letter which gave the alphabetical order. Realising this, the main titles in the formulary section of the Codex have been arranged with qualifying adjectives such as strong, compound and concentrated placed after commas at the end of the titles, e.g., Eye-drops of Sulphacetamide, Strong. The titles in the correct order are given in smaller print under the main title. That, it is hoped, will make it easier for users to find their way about.

In the National Formulary, the arrangement has reverted to that used in the 1949 edition. So many important medical and pharmaceutical bodies passed resolutions asking for this change that the Joint Formulary Committee had little choice but to make it. The committee is not supporting the use of Latin in the N.F.; it is recognising that by far the greater number of prescriptions are written in a type of shorthand which is often abbreviated Latin but sometimes could equally well be abbreviated English. It is these abbreviations to which practitioners and pharmacists are really attached.

The British Pharmaceutical Codex is intended to provide: Information on the chemical, physical and therapeutic properties of all drugs and biological products regarded as being of value in current medicine, on commercial varieties and on related substances; an adequate range of formulas containing those drugs; standards for non-pharmacopœial drugs, biological products, surgical dressings and preparations.

The criticism which we now receive from pharmacists is generally to the effect that the book is too selective and omits drugs and preparations in common use. An existence of half a century has given the letters B.P.C. a significance which has, for instance, been recently recognised by the Joint Committee on Prescribing in this country, and by authorities administering health services in certain Dominions. That has conferred a responsibility upon the Codex Revision Committee to select only those drugs which are efficacious or which are, at least, traditional constituents of valuable preparations. As the Codex gives critical assessments of the drugs it includes it is practicable to include all drugs of proven activity, and not only the most efficient of any therapeutic group. Some of the drugs which have been deleted are now regarded as ineffective but most of the considerable number of deletions which have been made from the Codex are of drugs and preparations which are now little used. An examination of the lists of deletions will confirm this.

Obsolescent Drugs

Some critics think that monographs should be retained even for obsolescent drugs and preparations so that information on them may be available if required. Unfortunately many of those drugs are still used to a small extent as reference to any wholesale druggist's list will show. The plain fact is that while it is realised that the Society has a duty to make available to its members the information they may require to do their work efficiently it is quite impracticable to provide that in one very large and very cumbersome volume, particularly as other publications of the Society such as the Extra Pharmacopœia enable that additional information to be given more effectively in a manner which would be quite unsuitable for the B.P.C.

The selection of drugs for addition to the Codex has to be completed on the evidence available some twelve to

eighteen months before the date of publication. One or two drugs such as dextran and hyaluronidase, which would otherwise have been included, were omitted because suitable specifications could not be prepared in time.

Trend Towards Simplification

There has been a general trend towards a simplification of the standards wherever possible and, in line with that policy, where the method of manufacture makes it unlikely that a certain impurity will be present, the limit test for that impurity has been deleted from old monographs (e.g., for zinc in eosin and for chlorides and sulphates in the sulphonamides), or omitted from new monographs. Tests for limits of acidity or alkalinity have been made more precise in many cases by specifying a titration method instead of a limit of *p*H (e.g., ethylmorphine hydrochloride). In certain other cases tests for reaction have been changed to identification tests (e.g., carbromal, and codeine). Limits of *p*H have been retained for substances used in injections. A number of spectrophotometric identification tests have been introduced, together with assays based on light absorption (e.g., cortisone acetate); in other cases tests for light absorption have been included (e.g., lobeline hydrochloride). For substances melting at high temperatures with decomposition the melting points have been changed from purity tests to identification tests. The standards for the dyes have been completely revised and more stringent requirements laid down. Assays have been added whenever possible to existing standards (e.g., atropine methonitrate, and carbromal). A great many standards have also been drawn up for the preparations in the formulary section. The addition of such standards for mixtures, lotions and many other extemporaneously prepared medicines does not mean, of course, that pharmacists in future are expected to standardise their products before they issue them. It means a recognition of the fact that those dispensed medicines are as liable to be sampled and tested as are the products of the pharmaceutical manufacturers.

Additions to Part II include monographs on mixed prophylactics, a monograph on immune human sera covering various convalescent sera and measles adult serum and a monograph for rabies vaccine.

In the section on surgical dressings, ventilated and half-spread adhesive bandages are described for the first time while the monographs on fully spread adhesive bandages have been re-worded to cover the porous types, provided the containers are suitably labelled. Animal wool for chiropody is now described following reports in a chiropody journal of variation in the material sold for this purpose. The increasing use of rayon in a variety of surgical dressings is recognised by the inclusion of two monographs for viscose rayon under the titles regenerated cellulose and delustred regenerated cellulose. The statement on the storage of surgical dressings refers to the fact that the initial absorbency is generally lost or much diminished after long storage and also that the loss of absorbency is not regular in its onset so that no definite time limit can be given for the effective absorbent life of a dressing.

Although most of the omissions from the formulary section can be readily justified on the grounds that they have fallen into virtual disuse, there are a few for which other explanations must be given. Emulsion of liquid paraffin with agar has been omitted because the agar has no therapeutic function in the concentration in which it is present, its only value being to increase the viscosity of the watery phase and so reduce the rate of creaming. Tragacanth does that at least as well. Emulsion of paraffin with phenolphthalein is now prepared with the B.P. emulsion of liquid paraffin. Glycerin of pepsin has been omitted on evidence that it is an unreliable preparation, some batches losing peptic activity rapidly.

The additions to the formulary section are not so numerous as in the previous editions. Although many new preparations come into use every year those are almost entirely proprietary preparations of drugs which are not available except as formulated products. There is usually no point in including formulas if the drug cannot be obtained to make them, there is even less point in including a formula for a preparation of an unobtainable drug if the manufacturer will not make available a preparation complying with the monograph. In the B.P.C., 1954, formulas containing a new drug have only been included if the drug is available, otherwise the preparations of the drug are described in the action and uses sections of the monographs on the drugs. Manufacturers will explain their decision not to supply those drugs except as formulated products on the grounds that they can only recover their research and development expenses by the sale of formulated products. It is pleasing to record that some firms do supply the drugs which they have developed as well as their preparations and appear to flourish in spite of their liberal attitude.

Boric acid has been omitted from the sulphacetamide eye-drops, as it has been shown that the advantage of reducing the *p*H is, particularly in the strong eye-drops, negatived by the increased tonicity. On the advice of the ophthalmologists the concentration of homatropine hydrobromide in eye-drops of cocaine and homatropine has been doubled. Eye ointment bases for B.P.C. eye ointments have been made softer by the inclusion of 10 per cent. liquid paraffin.

In the monograph on syrup of raspberry, benzoic acid has been dropped as an alternative preservative to sulphur dioxide. The Preservatives in Food Regulations do not permit an adequate concentration of benzoic acid to preserve the syrup effectively. The monograph now permits syrup of raspberry to be prepared by diluting with syrup a concentrated juice containing the appropriate amount of sucrose.

In order to help the pharmacy subcommittee and the committee preparing the National Formulary an arrangement has been made through the branches of the Society whereby pharmacists receive details of new and amended formulas and report on the results which they get with them. Some seventy to eighty pharmacists have volunteered for that work.

In the National Formulary some old favourites such as mist. ammon. et seneg. and mist. strych. et ferr., which had lost their places in the previous edition, have now been replaced on popular demand. Several formulas have been included at the request of the Northern Ireland representatives, others on evidence that they are frequently prescribed although no formulas exist in the current books. That latter group includes several antibiotic preparations for local treatment. In order that the various solutions of penicillin for external use can be readily prepared, solution-tablets of penicillin have been replaced by similar tablets containing, in addition, sodium citrate. Linctus of methadone, a three-sulphonamide mixture for children and two formulas for compound vitamin B tablets for prophylactic and therapeutic treatment respectively, are interesting additions.

Reaction of Medical Press

The reaction of the medical Press to some of the additions to the new Formulary deserves consideration. It concerns in particular certain mixtures that were deleted from previous editions but which have been reinstated either because frequency-of-prescribing surveys have shown that they are still often prescribed or because there have been numerically strong requests from medical practitioners for their inclusion. In judging the action of the committee it should be realised that they have, in fact, included only a few of the very many formulas from old formularies which are still prescribed; in two counties alone there are ninety-six mixtures and sixty-seven other preparations in that category. Several county pharmaceutical committees issue booklets containing such formulas; in other counties, pharmacists have to get, somehow or other, the seven or eight formularies used for the National Health Service

during the last twenty-five years. With new editions of the N.F. being produced every two and a half years, the position in another two decades may well be viewed by pharmacists with concern. Only when the evidence that those preparations are greatly in demand is indisputable have they been reinstated in the National Formulary. The pharmacist is aware that on the one hand many medical authorities condemn those preparations as unsound; he is also aware that many general practitioners continue to prescribe them. Two things are certain. One is that the omission of a medicine from one of the official books is not in itself as effective a condemnation as the compilers of these books seem to think. Unfortunately those whom that gesture is intended to impress rarely notice it. The second is that the decision on what medicine is to be supplied to the patient is made by the doctor and the duty of the pharmacist is to dispense that medicine. That task is often made more difficult than it need be by having to refer to a collection of out-of-date formularies. I was therefore very pleased to read what the *British Medical Journal* [February 12, p. 402] said about the new N.F. because I believe that it may stimulate a discussion which will help the Joint Formulary Committee and eventually the pharmacists who have to use the book it produces.

Another criticism is that certain popular proprietaries composed of freely available drugs have no equivalents in the N.F. It can hardly be expected that the committee will include those formulas if it does not consider them therapeutically sound. The idea that a patient will have no confidence in what his doctor prescribes unless it resembles some well-known proprietary medicine seems to me to be based on a completely unreal conception of the doctor-patient relationship.

Discussion

MR. R. C. NEWMAN drew attention to the footnote to mist. alumin. hydrox. in the N.F., which stated that 7½ min. tinct. belladonna should be added to each half fluid ounce of mist. alumin. hydrox. when mist. alumin. hydrox. et bellad. was prescribed, although the dose of mist. alumin. hydrox. was one teaspoonful. DR. CAPPER replied that an amendment would be published.

MR. MCLACHLAN congratulated the Formulary Committee on using a different-coloured cover for the N.F. He found that practice helpful in connection with his use of Bell's *Sale of Food and Drugs*. Only the current B.P. or B.P.C. was legal for labelling purposes under the Pharmacy and Medicines Act, 1941. It would be a convenience to manufacturers of old-fashioned preparations if for nomenclature purposes some allowance could be made in the B.P.C. for including some of those preparations. He thought that most analysts were more concerned with the morphine than with the hydrocyanic acid content of tinct. chlorof. et morph. He suggested that interleaved copies of the B.P.C. should be made available. DR. CAPPER replied that the nomenclature of preparations not in current books was a problem. So far as labelling was concerned he thought that it was reasonable that if old B.P.'s and B.P.C.'s were allowed for purchase-tax purposes they should be allowed for the labelling requirements of the Pharmacy and Medicines Act. The problem of revising standards in old editions was something that the Pharmaceutical Society would have to think about. He mentioned the method of assay of zinc phosphide, B.P.C., 1934, which, although it could be made to work, in the hands of many people, in fact it did not work. He thought that printing on one side of the paper only would be very expensive.

DR. F. HARTLEY said that although pharmacists condemned colour on tablets as a means of identification they seemed to like it to distinguish books. He was surprised that the official journal of the British Medical Association, one of the publishers of the N.F., should have been so critical of the N.F. He wondered to what extent the largest purchasers of the book governed the selection of the contents. Although mist. ferri. et strych. had been readmitted to the N.F., bismuth was still kept out. Was that because it was more expensive? Was the N.F. on the road to utility medicine? In the proprietary preparations list B, in the N.F., opposite the proprietaries, there were given preparations of reputed analogous therapeutic effect. Where were those reputations acquired? DR. CAPPER replied that there had been no reports of anyone being poisoned by eating an N.F. although some people found it difficult to swallow! In the debate on whether bismuth should be in or out of the N.F. the question of cost was not considered. As an antacid, bismuth had been proved ineffective. The administration of strychnine and iron was a type of therapy that was difficult to assess. He did not think that the mixture containing those drugs was given as a haematinic but as a "tonic." It might be that that type of mixture was assumed to be successful because it was given to patients who might be described as non-returnable. Pharmacologists did not measure it that way. In welcoming the *B.M.J.* editorial he was not being tactful, but was genuinely hoping, perhaps against hope, that the article might stimulate discussion and bring forth the reasons why the preparations in old formularies were still prescribed, and might help to get rid of them. The pharmacist was principally concerned in that matter and he rightly resented having to refer to a whole series of old books.

MR. R. C. EDWARDS asked what one would do if a doctor ordered mist. ferri. sulph. and it was known that he really wanted the ferri. sulph., acid. sulph. and mag. sulph. mixture. DR. CAPPER replied that it was up to the doctor to make it clear what he wanted, and if the pharmacist thought the doctor was under some misapprehension he should tell him so.

MR. NEWMAN referred to the fact that the new N.F. directed that No. 1 surgical spirit containing ethyl phthalate should be dispensed where the previous edition had specified the No. 3 formula containing brucine. Had the Customs and Excise insisted upon that? DR. CAPPER said that brucine sulphate was not an adequate denaturent; ethyl phthalate was more effective. Brucine sulphate was left in the B.P.C. as the No. 2 formula because the Customs and Excise insisted on a second formula. It was renumbered because it would have been difficult to give the Nos. 1 and 3 to two formulas.

MISS M. C. ISLIP suggested that something might have been done about the nomenclature of children's mixtures where the only difference was the wording "pro inf." DR. CAPPER said that that matter had been given a great deal of attention. He thought that it was a wise rule that the principal drugs should be given in the title. The drugs might have been reversed in the title, but many prescribers did that normally. Now that the children's section had a distinct colour, prescribers might be more inclined to make it clear that they were prescribing for children. MR. D. A. G. CARLESS suggested that a coloured EC10 form should be provided for children's prescriptions. MISS D. MURGATROYD suggested that already there were so many coloured forms that the only possibility left was a black form and white ink!

CODEX FOR THE EMPEROR.—The Ethiopian Government, in inviting tenders for drugs, is henceforth recognising as standards the British Pharmacopœia and British Pharmaceutical Codex as well as the United States Pharmacopœia. Previously only the U.S.P. was specified, but a team that visited Ethiopia recently (see p. 275) was asked by the Association of British Pharmaceutical Industry to draw the attention of the authorities to the position. The suggestion was made that a copy of the B.P., B.P.C., and B.Vet.C., should be presented to the Emperor of Ethiopia, Haile Selassie I, and accordingly the Pharmaceutical Society sent out a specially bound volume of each work, each binding being embossed with the Emperor's name and arms. It appears that the Emperor was greatly pleased with the gift and expressed his gratitude personally to the chairman of the team—so pleased that it seems likely the books will remain in the Emperor's private library.

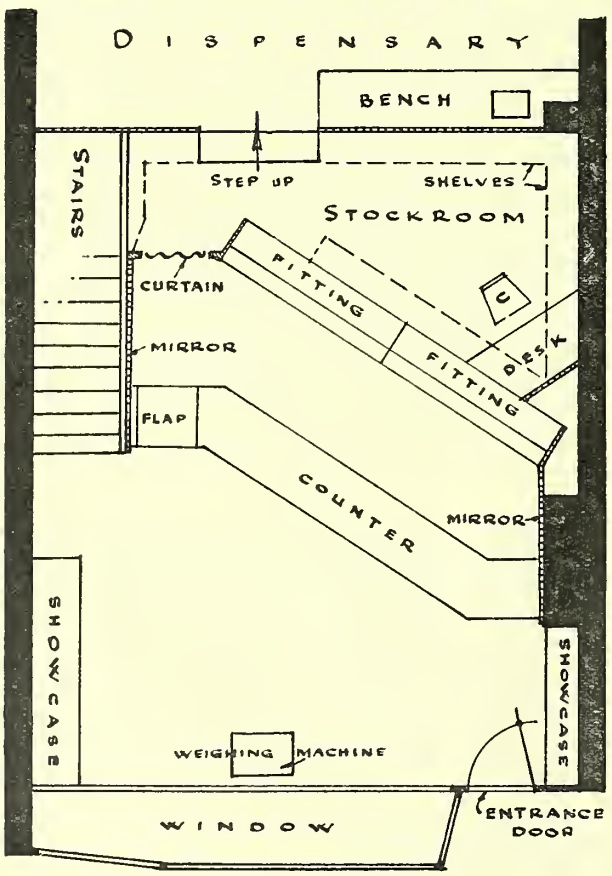


SHOPFITTING PROBLEM?

WRITE TO JAMES GRIMM

I enclose a scale plan of my shop, and would appreciate a suggested layout of fixtures and counters. I have not shown existing fittings, as I do not want to bind myself to their use. I should say, however, that I have two bees in my bonnet. First, I think that all stock should be on the shelf (not in a stockroom, although I have one behind the dispensary), and secondly, I like a system to the shelves (i.e., goods placed alphabetically or grouped, not just put anywhere). The dispensary is not shown in detail, as I think I have the best arrangement I can have, but the step up into the dispensary is an unalterable part of the building. The shop proper has *to end there, and it would be almost impossible to make the shop into one with a double front, for structural reasons. The steps shown lead to the optical testing rooms, chiropody, surgery, etc., and must be left free for patients to use. Your suggestions would be welcome.*

You state that the stairs on the left of the premises lead to the optical, chiropody and surgery rooms on the first floor, and that they must be left free for the patients to use. That at once dictates the layout, as it is obvious that there must be a free gangway diagonally across the shop from the entrance door to the stairs. Had your entrance door been on the same side as the stairs, the planning would have been much easier, and better use could have been made of the shop area as a whole. I am a little dismayed about the first "bee in the bonnet," because the shape that remains after the diagonal gangway is formed is rather deep and narrow. After several attempts I have found the adjoining plan (complete with stockroom) to be the most successful solution. The result as a whole, indeed, gives a certain character to the layout which I hope you will not find unpleasing. A curtained opening gives access to the stockroom and dispensary beyond. You may already have a desk set up for clerical work at the rear of your premises, but if not, a corner desk in the new stockroom might prove an advantage in allowing you to interview travellers in comparative privacy.



The splayed counter has a wicket gate and flap at the staircase end. Two wall mirrors have been introduced to give visual width to that part of the shop. On the wall at the foot of the stairs a large illuminated showcase is indicated. Its purpose is to provide an attractive display to customers crossing the shop to use the stairs. A further showcase is placed to the right of the entrance door. The window enclosures have been left free for easy access, but a weighing machine could be conveniently positioned behind them.

I am planning certain alterations to my pharmacy and enclose a rough sketch of my ideas as they stand at present. Will you offer me your criticisms of the layout?

By and large I think the plan a good one; there is plenty of customer space, the service is direct and the general lines of the plan are orderly. One alteration occurs to me. I would suggest that the optical consulting and waiting rooms be reversed. As they are at present your customer, to reach the waiting room, has to pass through what is in fact a main junction way between stockroom, dispensary, and main service counter area. There will be much passing to and fro at that position. If the two areas were changed over your customer would then enter the waiting room at the left-hand door, access to which would be free and uncongested and in more direct line with the main entrance. That would bring your optical consulting room over to the right, in close relationship with the stockroom. It will also enable you to be in close touch with the column junction point where your assistants are constantly passing. The reflected gas heaters would be better directed towards the entrance door, rather than being positioned near the window enclosures and directed towards the counters.

BRITISH FINE CHEMICALS AND THEIR USES

29. BARIUM CARBONATE

Barium carbonate occurs naturally as the mineral witherite, but is placed on the market as the precipitated commodity in varying degrees of purity, though mainly as the pure and "commercial" varieties. It is generally prepared from barytes by treatment with carbon dioxide, the sulphur being removed by boiling with barium hydroxide with which it combines. Afterwards the purified barium carbonate is filtered off, washed, and dried. For special purposes it is made by treating a solution of barium chloride with an excess of hot ammonium carbonate solution, and there are also other select methods of preparation, such as the treatment of barium sulphide with sodium carbonate, etc. Barium carbonate is a dense, pure white powder, which upon heating to specific degrees alters its composition to form a basic carbonate, or mixture of barium oxide and carbonate. Barium carbonate when used in the laboratory for the estimation of free hydrochloric acid in gastric juice must be guaranteed free from chlorine. It is used as a loading material in certain classes of paper in place of the more familiar barium sulphate. Its main uses, however, are in the china and porcelain industries, where it is employed for the manufacture of fusible glasses, stoneware glazes, colourless crucibles, and *terra cotta*. Chemically it provides a convenient base for the manufacture of other barium salts and represents an important reagent in the rare-metal laboratory, where it is used for testing titanium, cerium, thorium, beryllium, uranium, and indium. In normal laboratory operations it is used for the separation of oxides of iron and aluminium from manganous oxide, zinc oxide, lime, and magnesia. Barium carbonate has been employed as an ingredient of rat poisons.



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'Sulphamezathine' is *EFFICIENT*

It acts swiftly, and when used promptly, checks outbreaks almost immediately. It is consistently successful and completely safe for the treated birds.

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Four tablespoonfuls of 'Sulphamezathine' to one gallon of drinking water is all that is necessary.

'Sulphamezathine' is *ECONOMICAL*

The cost of a course of treatment with 'Sulphamezathine' works out at roughly a halfpenny a chick.

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TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, MARCH 12: Trading in CRUDE DRUGS on home account showed little change during the week, but inquiry from the Continent was more apparent. Stocks of many commodities are low not only in London but at Continental ports, and it is thought unlikely that the spot position will show any change until new crops become available and bring with them some easing in prices.

A dock strike in Mombasa, Kenya, has not materially affected the market for those SPICES which are normally shipped from that port, though CHILLIES are slightly firmer. CARDAMOMS (Aleppy greens) were sixpence per lb. lower, but last week's reduced quotation for CLOVES brought no extra business, and the result was a further easing at origin, with spot supplies down by a further penny per lb. African GINGER was 5s. a cwt. lower, but Jamaican was dearer by the same amount. A small quantity of Prime Cape ALOES was offered during the week but there were again no shipment offers. IPECACUANHA and RHUBARB showed no variation on the week. MERCURY prices appear to have become stabilised around £109 to £110 per flask. Output of Italian mercury dropped somewhat in the second half of 1954, though exports during the whole year amounted to 2,136 tons, against 1,902 tons in 1953.

In PHARMACEUTICAL CHEMICALS, prices of small lots of BROMIDES have been increased slightly to cover higher packaging charges. Bulk quantities are unchanged in price. THYMOL is dearer by sixpence per lb. throughout the schedule.

LEMONGRASS did not retain its advance of the previous week. Chinese PEPPERMINT was also easier on the spot, though it would appear that replacements would cost considerably more than the present spot price. CITRONELLA was quiet and inclined to ease.

A report from Norway states that the first three weeks of cod fishing in the Lofoten Isles has brought a yield of oil about equal to that of the two preceding seasons—8,370 hectolitres against 7,978 and 7,373 hl. respectively. In a normal year like 1952 the output in the first three weeks was 14,373 hectolitres.

Pharmaceutical Chemicals

ACETIC ANHYDRIDE. — Rates (per ton) delivered U.K., in returnable drums, range from £121 for 10 tons to £126 for single 90-gall. drum lots.

AMMONIUM CHLORIDE, B.P. — Makers quote 1-cwt. lots at 68s.

EMETINE.—Price for 32-oz. lots of the HYDROCHLORIDE is 250s. per oz. The BISMUTH IODIDE is 125s. per oz.

EPHEDRINE.—In 100-oz. lots ALKALOID is 7s. per oz.; HYDROCHLORIDE and SULPHATE, 4s. 3d. per oz.

ERGOMETRINE.—For 20-gm. lots the price of the MALEATE, B.P., is £27 10s. per gm., and the TARTRATE, £25 10s. per gm.

FERROUS GLUCONATE.—B.P.C. is 6s. 6d. per lb. in 1-cwt. lots.

FERROUS SULPHATE.—1-cwt. lots of B.P. crystals are 42s. 6d. per cwt. and 5-cwt., 40s.; granulated, 2s. 6d. per cwt. more. EXSICCATED is 95s. per cwt.; 5-cwt. lots, 91s.

GLYCERIN. — Rates for pharmaceutically pure are as follows:—

	Under 1-cwt.	1-cwt. and under 5-cwt.	5-cwt. and under 1 ton	1 ton and under 5 tons	5 tons and under 25 tons
Minimum deliveries off contract of	—	1-cwt.	1-cwt.	5-cwt.	10-cwt.
Per cwt.	*s. d.*	*s. d.*	*s. d.*	*s. d.*	*s. d.*
TINS					
14-lb.	301 0	296 6	292 6	288 0	285 6
28-lb.	299 0	294 6	290 6	286 0	283 6
56-lb.	295 0	290 6	286 6	282 0	279 6
DRUMS					
1-cwt.	—	274 6	270 6	266 0	264 6
2½-cwt.	—	271 6	268 0	263 6	262 0
5-cwt.	—	—	267 6	263 0	261 6
10-cwt.	—	—	266 6	262 6	261 0

Refined pale straw industrial glycerin s.g. 1·260 is 5s. per cwt. less than the above.

HYPOPHOSPHITES. — Prices per lb. are unchanged as follows:—

SALT	7 lb.	28 lb.	1 cwt.
	s. d.	*s. d.*	*s. d.*
AMMONIUM ...	12 10	12 5	12 0
BARIUM ...	7 10	7 5	7 0
CALCIUM ...	5 11	5 6	5 1
IRON	12 1	11 8	11 3
MAONESIUM ...	9 4	8 11	8 6
MANGANESE ...	12 4	11 11	11 6
POTASSIUM ...	7 11	7 6	7 1
SODIUM	6 7	6 2	5 9

LEAD ACETATE.—B.P. crystals are 180s. per cwt., and technical, 160s.

MAGNESIUM CARBONATE.—Minimum bulk rate for LIGHT is 121s. per cwt.; HEAVY is 150s. per cwt. for 5-cwt. lots and 124s. per cwt. for 1-ton lots.

MAGNESIUM OXIDE, B.P. — Bulk rates are as follows:—LIGHT, 3s. 3d. per lb., and HEAVY, 5s. 4d. per lb. for minimum 1-ton lots.

MAGNESIUM PEROXIDE.—Price (per lb.) for 1-cwt. lots of B.P.C. (15 per cent.) is 3s. 11d.

METOL. — In 1-cwt. lots the price is 24s. 6d. per lb.; 28-lb., 25s. 6d.; 14-lb., 27s.; 7-lb., 28s.

OLEIC ACID. — Price for B.P. is about 153s. per cwt.

OPIATES.—Home trade rates for 4-oz. up to 7-oz. lots including container (non-returnable) are as follows:—CODEINE.—alkaloid, hydrobromide, iodide, 58s. 6d. per oz. (2,063s. per kilo); hydrochloride, sulphate, 51s. 3d. (1,808s.); phosphate, 44s. 9d. (1,578s.). DIAMORPHINE.—Alkaloid, 60s. 3d. per oz. (2,125s. per kilo); hydrochloride, 54s. 9d. (1,931s.). ETHYLMORPHINE.—Alkaloid, 63s. per oz. (2,222s. per kilo); hydrochloride, 53s. 9d. (1,896s.). MORPHINE. — Alkaloid, bimeconate, tartrate, 60s. 6d. per oz. (2,134s. per kilo); acetate, hydrochloride, sulphate, hydrobromide, 50s. 3d. (1,773s.).

PAPAVERINE.—Synthetic HYDROCHLORIDE is offered at 365s. per kilo.

PHENOBARBITONE. — 1-cwt. lots are 25s. 6d. per lb.; SODIUM is 6d. per lb. more than above rates.

PHENOLPHTHALEIN.—Rate for 1-cwt. lots is 10s. 10d. per lb.

POTASSIUM HYDROXIDE.—B.P. sticks are from 6s. 6d. per lb.

PROCAINE HYDROCHLORIDE. — 1-cwt. lots are 30s. per lb.

RESORCINOL. — 1-cwt. lots are now quoted at 13s. per lb. by manufacturer.

RIBOFLAVINE. — Price (per kilo) is £41 15s. for 1-kilo and £41 10s. for 100-kilo lots.

SALICYLAMIDE. — Price (per lb.) for 1-cwt. lots is 8s. 6d.

SALICYLIC ACID.—Prices are: 5-cwt. lots in bulk, 2s. 11½d. per lb.; 1-cwt., 3s.; 56-lb., 3s. 7d.

SILVER SALTS. — NITRATE in 1,000-oz. lots is 4s. 1½d. per oz.; PROTEIN unchanged at from 36s. 3d. to 42s. 9d. and for VITELLIN from 68s. 6d. to 76s. 6d. per lb., as to quantity.

SODIUM CARBONATE.—B.P. exsiccated is 60s. 6d. per cwt.

SODIUM SALICYLATE.—Rates are:—1-ton lots in bulk, 3s. 5d. per lb.; 5-cwt., 3s. 5½d.; 1-cwt., 3s. 6d.

SODIUM SULPHATE.—Makers' prices for B.P. range from £10 10s. to £16 10s. per ton as to crystal and quantity.

STEARATES.—Prices for minimum 1-ton lots are as follows:—ALUMINIUM (all grades), 244s. 6d. per cwt.; CALCIUM (precipitated), 222s. 6d.; LEAD (30 per cent.), 229s. 6d.; LITHIUM (ordinary quality), 461s. 6d. MAGNESIUM (standard), 256s. and (superfine) 286s.; ZINC, B.P., 276s.

SULPHOCARBOLATES. — SODIUM PHENOLSULPHONATE, B.P.C. (powder) is 5s. 6d. per lb. in 1-cwt. lots and ZINC, B.P.C., is 5s. 6d.

SULPHUR. — B.P. PRECIPITATED is £105 per ton, or £110 per ton for 1-cwt. lots.

TANNIC ACID.—B.P. levis is 5s. per lb.

TERPIN HYDRATE. — Prices are from 5s. per lb. upwards as to quantity.

THEOPHYLLINE.—1-cwt. lots of ALKALOID are nominal at 29s. per lb. and AMINOPHYLLINE at 28s.

THYMOL.—Dearer. Prices (per lb.) are 15s. 9d. for 28-lb. and 15s. 3d. for 1-cwt. lots.

ZINC SULPHATE.—B.P. in 1-cwt. lots is quoted at 1s. 2d. per lb.; 28-lb., 1s. 5d.

Crude Drugs

ALOES.—Prime Cape, now landing is offered at 275s. per cwt.; no offers for shipment.

ANISEED (STAR).—Chinese is 165s. per cwt., in bond and 147s. 6d., c.i.f.

ANTIMONY. — English 99·6 per cent. is £222 10s.; 99 per cent., £210 per ton.

BALSAMS.—Quotations (per lb.) are:—*Canada:* spot offers are from 20s. to 25s. as to holder; no offers for shipment. *Copaiba*, B.P., 11s. 6d. *Peru* is 12s. 6d., duty paid; forward delivery, 11s. 3d., c.i.f. *Tolu* (genuine as imported), 26s. 6d. spot, and 26s., c.i.f.; B.P., 17s. 6d., spot.

BENZOIN.—Sumatra block on the spot is from £27 10s. to £32 per cwt.

BUCHU.—New-crop offers of rounds for shipment are from 3s. 6d. to 4s. 2d., c.i.f., as to quantity and position.

CARDAMOMS. — Aleppy greens on the spot are 13s. 6d. per lb.; March shipment, 11s. 9d., c.i.f. Seed is 17s. 6d., c.i.f., and 22s., spot.

CHILLIES. — Mombasa. Spot supplies offered at 380s. per cwt. and shipment, 360s. per cwt., c.i.f.

CLOVES.—Zanzibar on the spot are now quoted at 3s. 5½d. per lb.; prompt shipment, 3s. 1½d., c.i.f.

COLCHICUM.—Corms on spot are offering at 2s. 3d. per lb., and seeds, 6s.

COLOCYNTH PULP.—A parcel on the spot is quoted at 4s. 6d. per lb., duty paid.

ERGOT.—Portuguese on the spot is 16s. per lb., and Polish for shipment, 7s., c.i.f.

GINGER.—African is quoted on the spot at 225s. per cwt.; old-crop for shipment, 200s., c.i.f. Jamaican No. 3 is now 320s. on the spot and 305s., c.i.f.

HONEY.—Firm. Australian light-amber is offered on the spot at from 102s. 6d. to 110s. 6d. per cwt. and medium-amber, 97s. 6d. to 102s. 6d. Jamaican is from 125s. to 135s. Argentine stocks are cleared.

IPECACUANHA.—Nicaraguan, high testing is 75s. per lb. on the spot. Colombian for shipment, 62s. 6d., c.i.f.

KARAYA. — No. 1 gum on the spot is quoted at 325s. per cwt., and No. 2 at 210s.

LIQUORICE. — Firm. Stocks of natural whole root are short on the spot. Quotations for Anatolian are now 75s. per cwt., with Russian at 70s.; Block juice quotations are 210s. per cwt. on the spot. Italian stick from 310s. to 475s. per cwt., duty paid.

MACE. — West Indian pale blade is 9s. 6d. per lb.; shipment, 8s. 10d., c.i.f.

MENTHOL.—Chinese is 59s. 6d. per lb., duty paid and 57s. 6d., in bond. Brazilian afloat, 55s., c.i.f., and spot, 57s. 6d., duty paid.

MERCURY. — Nominal spot value is £109 to £110 per flask of 76-lb. ex-warehouse.

MYRRH.—Aden selected sorts are about £14 10s. per cwt. on the spot. Siftings are from £7.

PAPAIN. — Spot value for East African grade one is from 17s. 6d. to 18s. per lb.

PEPPER.—Easier. White Sarawak on spot is selling at 4s. 3½d. to 4s. 4d. per lb.; afloat parcels are 4s. 1d. to 4s. 2d., c.i.f. Black Sarawak is 3s. 2d., spot; afloat, 2s. 10d. to 2s. 11½d., c.i.f. Black Malabar is unchanged at 385s. per cwt. on the spot but March–April shipment has advanced to 355s., c.i.f.

PIMENTO. — Spot is quoted at about 7s. per lb.

QUASSIA. — Spot quotations for chips are at about 45s.; April–May shipment is about 32s. 6d. per cwt.

RAUWOLFIA.—*Canescens* is 5s. 3d. per lb., ex warehouse. *Serpentina* 15s., nominal.

SAFFRON.—Mancha superior is 215s. per lb. Rio selecta about 212s. 6d.

SARSAPARILLA.—Jamaican native red on the spot is about 4s. per lb. For shipment the price is 3s. 8d., c.i.f.

SASSAFRAS BARK.—Selected is 6s. 3d. and natural, 4s. 3d. per lb. landed terms.

SEEDS. — (Per cwt.). ANISE.—Tunisian ready for delivery with sellers quoting 280s., duty paid (260s., in bond). CARAWAY.—Dutch reported sold at 170s., duty paid. CELERY.—Indian remains quiet at 155s., spot. CORIANDER.—Steady. Spot, Morocco 80s., duty paid (75s., in bond). Danubian or Rumanian 65s., duty paid. Shipment, Morocco sellers quoting 58s., c.i.f., London. CUMIN.—Small business reported on spot with Cyprian offered at 125s.; Morocco is 126s., duty paid. Shipment, Cyprian, 108s., Morocco, 110s., c.i.f., London. DILL. — Indian in poor demand, sellers asking 80s., spot. FENNEL. —Indian is quoted at 90s.; Chinese, 92s. 6d., duty paid with no interest shown. FENUGREEK.—Firm. Morocco is 57s. 6d., spot, duty paid; shipment is 51s., c.i.f. MUSTARD.—English, 75s. to 87s. 6d., according to quality.

SENEGA. — Spot value is 23s. 6d. per lb. with shipment offers at 24s., c.i.f.

SENNA. — *Tinnevelly* LEAVES (per lb.), prime No. 1, 1s. 1d.; No. 2 (dry crop), 9½d.; prime No. 3, 8d.; f.a.q., No. 3, 7d.; PODS, f.a.q., 7½d.; hand-picked, from 1s. 6½d. to 2s. 10d. as to quality, all on the spot. *Alexandrian* manufacturing pods, 2s. spot; hand-picked, 7s. 6d.

SERPENTARIA. — Root is offered at 37s. per lb. on the spot.

SHELLAC.—Fine orange, 455s. to 500s. per cwt.; F.O.T.N. pure, 405s., ex London warehouse.

SLIPPERY ELM. — Grinding quality bark is 2s. 7d. per lb., landed.

STRAMONIUM. — Indian LEAVES are 75s. per cwt. and European 80s. on the spot.

STROPHANTHUS.—*Kombé* is 7s. and 9s. per lb. as to crop. *Gratus* is 14s.

STYRAX.—Spot is 5s. 7d. per lb.

TONKA BEANS.—Frosted Para are 6s. per lb. on the spot.

TRAGACANTH.—No. 1 ribbon is £155 to £160 per cwt.; No. 2, £120 to £125; No. 3, £105 to £110.

TURMERIC.—Rajapore is now offering at 205s. per cwt. on the spot. Old-crop Madras finger afloat to London sold at 140s., c.i.f., with new-crop, April–May shipment, quoted at 115s., c.i.f.

VANILLIN. — Rates (per lb.) are:— 5-cwt. lots, 30s.; 1-cwt., 30s. 3d.; 56-lb., 30s. 6d.; smaller quantities, 30s. 9d.

WAXES. — BEES'—Mozambique, spot, 535s. per cwt., duty paid; Dar-es-Salaam, spot cleared; shipment, 535s., c.i.f.; Sudanese and Abyssinian spot, 530s., duty paid and 480s., c.i.f. CANDELILLA. — Spot is 570s. per cwt. Forward, 570s., c.i.f. CARNAUBA.—Prime yellow on the spot is 850s. per cwt., shipment, 810s., c.i.f.; fatty grey is 550s. on the spot; shipment, 520s., c.i.f. MONTAN.—Reibeck, crude, 115s. per cwt., spot. SPERMACETI.— Case lots are about 2s. per lb.

WITCH HAZEL LEAVES.—Firm at 1s. 9d. per lb. on the spot.

UVA URSI. — Spot offers are about 85s. per cwt.

Essential and Expressed Oils

ALMOND.—B.P. is from 6s. 6d. to 7s. 6d. per lb., as to quantity.

AMBER. — Rectified on the spot is quoted at from 1s. 6d. per lb.

ANGELICA SEED.—Price per lb. is now quoted at 260s.

ANISE.—Chinese is quoted at 19s. 6d. per lb. on the spot and 20s., c.i.f. nominal.

BERGAMOT. — Spot quotations are now 67s. 6d. per lb.

BIRCH TAR.—Rectified is about 14s. per lb. in 1-cwt. lots.

BOIS DE ROSE.—Scarce. Brazilian on the spot is 36s. per lb. and 31s. 6d., c.i.f., April–May shipment.

CADE.—Spanish is about 2s. 3d. per lb. on the spot for 1-cwt. lots.

CAJUPUT.—Spot supplies are 15s. 6d. per lb. for 1-cwt. lots.

CALAMUS. — Imported oils are offering from 70s. per lb.

CAMPHOR, WHITE.—Chinese is 2s. 9d. per lb., duty paid.

CEDARWOOD. — Scarce. Small lots on offer at 10s. 6d. per lb.

CINNAMON. — From quillings, English distilled is quoted at 30s. per oz. Other B.P. oils available down to 90s. per lb. Ceylon leaf, 13s. per lb., spot.

CITRONELLA.—Ceylon is 7s. 8d. per lb. on the spot and 7s., c.i.f.; Formosan and Java are 11s. 3d., c.i.f.

CUBEB.—English distilled is 50s. per lb. and imported, 47s. 6d.

GARLIC.—English is 55s. per oz.

GINGERGRASS.—Offers are from 35s. to 36s. per lb.

GRAPEFRUIT.—Australian is 14s. 6d. per lb. spot; Californian, cold pressed, 20s., c.i.f., subject to licence.

HYDNOCARPUS. — Spot is offered at 2s. 2d. per lb.

JUNIPER BERRY. — Imported oils are offered from 16s. per lb., duty paid. English-distilled is now 155s.

LAVANDIN. — Spot is 18s. 3d. per lb. nominal.

LEMONGRASS.—Shipment quotations are weaker at 13s. 6d. per lb., c.i.f.

LIME. — Supplies of West Indian distilled are offered from 35s. per lb. on the spot.

OLIVE.—Spanish virgin and pharmaceutical oils (B.P.) are offered on the basis of £214 10s. per 1,000 kilos, f.o.b., Spanish ports for prompt shipment. Equivalent landed terms ex-wharf London/Liverpool: French virgin new-crop or B.P., £220 per 1,000 kilos, c. and f., March shipment.

ORIGANUM. — In original containers the price is 13s. to 14s. per lb.

OTTO OF ROSE.—Spot offers are in the region of 425s. per oz. for genuine Bulgarian and 180s. per oz. for Anatolian.

PALMAROSA.—East Indian is 60s. per lb. on the spot, and 59s. 6d., c.i.f. for shipment. Formosan, 37s. 6d., spot.

PATCHOULI.—Penang is 59s., duty paid and 53s. 6d., c.i.f.

PENNYROYAL. — Spot is scarce with a nominal value of 17s. per lb.

PEPPERMINT. — *Arvensis:* Chinese is 43s. 6d., spot and 49s., c.i.f. Brazilian, 32s., spot, and 31s., c.i.f. (April–May). Italian "Mitcham" type oil is from 72s. 6d. to 80s., spot, and American 60s. to 65s.

PETITGRAIN. — Paraguay is quoted for shipment at 27s. per lb., c.i.f., and 28s. 6d., spot.

PIMENTO. — English-distilled berry is 165s. per lb. with imported at 67s. 6d. Rectified leaf (imported), 27s. 6d. per lb.

PINE.—*Pumilionis* on the spot is from 16s. per lb.; *sylvestris*, 9s. Siberian (*abietis*), 11s.

ROSEMARY.—Spanish oil on the spot is from 5s. 3d. to 5s. 9d. per lb., duty paid, as to quality.

RUE.—Spot offers are from 14s. per lb.

SAGE. — Spanish is offered at from 9s. 3d. per lb. and Dalmatian at 50s., duty paid.

SANDALWOOD.—Mysore is 75s. per lb.; East Indian 72s. 6d. Australasian, 39s.

SASSAFRAS. — Brazilian on the spot is 8s. 6d. per lb.

SPEARMINT. — Offers of U.S.P. quality vary between 33s. 6d. and 38s. per lb. on the spot. Dutch quoted at 32s. 6d., duty paid.

TANGERINE.—Good quality is scarce on the spot at 48s. per lb.

THYME.—B.P.C. is about 9s. 6d. per lb.

TITREE. — Small lots are offered at 13s. 6d. per lb.

VETIVERT.—Bourbon in original drums on the spot is 90s. per lb.

UNITED STATES REPORT

NEW YORK, MARCH 8: Higher raw material and production costs brought an advance in TARTRATES. Higher per lb. were TARTARIC ACID at 44 cents (up three cents); CREAM OF TARTAR at 36 cents (three cents), ROCHELLE SALT, 36½ cents (1½ cents); TARTAR EMETIC, technical, 60¼ cents (up 1½ cents); and the USP, at 65¼ cents (1½ cents). Also higher was TERPIN HYDRATE at 74 cents per lb. (up 12 cents). Among CRUDE DRUGS, TOLU BALSAM at $3·75 was down five cents. With spot supplies scarce, Moroccan FENUGREEK SEED advanced one cent to 9½ cents per lb. Lower per lb. among ESSENTIAL OILS were Dalmatian SAGE at $4·50 (down 15 cents), and LEMONGRASS, $2·35 (five cents).

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," February 16

For pharmaceutical preparations and substances and veterinary and sanitary substances all containing hydrazides (5)
TREPTOHYDRAZID, 735,223, by Chas. Pfizer & Co., Inc., Delaware, U.S.A.

For pharmaceutical preparations and substances for veterinary use (5)
VETZALIN, 735,424, by Phillips Yeast Products, Ltd., London, N.W.10.

For pharmaceutical preparations and substances for human use (5)
ASCARYL, 735,889, by Wallace Manufacturing Chemists. Ltd., London, N.W.3.

For strengthening foods for infants and invalids (5)
HI-LIFT, 736,902, by Barbara Boardman-Weston, Donington, Leics.

For pharmaceutical preparations (5)
NEGUVON, 737,720, by Farbenfabriken Bayer, A.G., Leverkusen, Germany.

For veterinary medicines (5)
LAMTOX, 737,831, by Chapman & Son (Grimsby), Ltd., Grimsby, Lincs.

From the "Trade Marks Journal," February 23

For filtering, clarifying and decolorising carbons (1)
SUCHAR, 728,195, by West Virginia Pulp and Paper Co., Delaware, U.S.A.

For chemical preparations used in the casting of metals (1)
LAPIX, 730,119, by W. E. Cox & Co., Ltd., Sheffield.

For chemical products used in agriculture, horticulture and forestry, and manures (natural and artificial) (1)
ORTONIC, 737,476, by British Nicotine Co., Ltd., Bedminster, Bristol.

For emulsifying agents being chemical products for use in industry (1)
STA-SOL, 737,901, by A. E. Staley Manufacturing Co., Delaware, U.S.A.

For non-medicated toilet preparations (3)
BIG BEN, 732,687, by John Miller & Co. (Liverpool), Ltd., Liverpool. POLYCOR, 732,696, by Therachemie Chemisch-Therapeutische G.m.b.H., Dusseldorf, Germany. FEATHER FINISH, 734,783, by Yardley & Co., Ltd., London, E.15. FLORIENT, 736,412, by Colgate-Palmolive Co., Delaware, U.S.A. TRAV, 736,928, by A. J. Siris Products, Ltd., Lanchester, co. Durham. TETU, 737,402, by Burleon, Ltd., London, W.1.

For pharmaceutical preparations used as vasoconstrictors for the treatment of respiratory conditions (5)
VASOCORT, 731,458, by Smith, Kline & French International Co., Delaware, U.S.A.

For insecticides, fungicides and preparations for killing weeds and destroying vermin (5)
MURCURITE, B733,629, by the Murphy Chemical Co., Ltd., Wheathampstead, Herts.

PRINT AND PUBLICITY

Advertising Campaigns

PONDS EXTRACT CO., LTD., Wadsworth Road, Perivale, Middlesex: Campaigns in *Daily Mirror, Daily Express, Woman* and *Woman's Own* on theme that Pond's cold and vanishing creams protect complexions against increasing quantities of atmospheric soot and grime due to modern conditions of life; in the same papers, *Good Taste, True Story Romances* and women's monthly magazines for Pond's vanishing cream; in fifteen women's periodicals for Pond's face powder; in national and women's Press for Angel Face; as well as larger spaces in *Daily Mirror, Daily Express, Woman's Own* and *Woman* for Pond's lipstick; and reader-style advertisements for Pond's dry skin cream in national and women's Press—altogether nearly 750 million advertisements.

TONI COSMETICS, Harlequin Avenue, Brentford, Middlesex: Epic self-neutralising home perm. Half-page in *Daily Express* on March 23.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, March 14

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. Dr. G. Brownlee (reader in pharmacology, University of London) on "The Attack on the Tubercle Bacillus."

ENFIELD CHEMISTS' ASSOCIATION, George Inn, Enfield, at 7.30 p.m. Dr. P. W. Spencer Gray (senior consultant anæsthetist, Chase Farm Hospital) on "Anæsthetics."

SOUTHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, Polygon Hotel, Southampton, at 7.30 p.m. Mr. R. M. Reed on "Colour Photography by the Negative-Positive System." Illustrated talk.

WEST HAM BRANCH, NATIONAL PHARMACEUTICAL UNION, Swan Hotel, Stratford Broadway, London, E.15, at 8.15 p.m. Film "Counting the Cost." Miss Green (superintendent, East Anglian Pricing Bureau) is answering queries on pricing.

Tuesday, March 15

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Oak Hall, Baptist Church, College Road, Harrow, at 7.45 p.m. Sir Philip Manson-Bahr, C.M.G., D.S.O., on "Examples of the Dramatic Action of Specific Drugs in Tropical Diseases."

LONDON SECTION, ROYAL INSTITUTE OF CHEMISTRY, Technical College, Roe Green, Hatfield, at 7.30 for 8 p.m. Dr. A. Cohen on "Synthesis in the Ergot Alkaloid Field."

NORTH STAFFS BRANCH, PHARMACEUTICAL SOCIETY, Grand Hotel, Hanley, at 7.30 p.m. Mr. F. G. Buck on "An Evening with Musical Boxes."

WEST MIDDLESEX CHEMISTS' ASSOCIATION and BRANCH, The Feathers Hotel, The Broadway, Ealing, London, W.5, at 8 p.m. Mr. D. W. Hudson on "The Comprehensive Pharmacy in the National Health Service."

Wednesday, March 16

LONDON SECTIONS, SOCIETY OF CHEMICAL INDUSTRY, and ROYAL INSTITUTE OF CHEMISTRY, chemistry lecture theatre, King's College, Strand, London, W.C.2, at 6.30 p.m. Dr. H. Baines on "Recent Advances in Photography."

MICROCHEMISTRY GROUP, SOCIETY FOR ANALYTICAL CHEMISTRY, Feathers Hotel, Tudor Street, London, E.C.4, at 6.30 p.m. Discussion on "The Direct Determination of Oxygen in Organic Substances."

SCOTTISH DEPARTMENT, PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, 36 York Place, Edinburgh, at 7.30 p.m. Mr. W. Boyle on "Spices and Essential Oils as Preservatives," and Mr. R. F. Weir on "Antioxidants."

WOLVERHAMPTON PHARMACEUTICAL ASSOCIATIONS, Y.M.C.A., Stafford Street, Wolverhampton, at 7.30 p.m. Address by Mr. Roberts (chief inspector, Pharmaceutical Society).

Thursday, March 17

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Rayner's Hotel, Harrow, at 7.30 p.m. St. Patrick's Day party. Ticket 7s. 6d. from Miss H. Trapp, 91 Woodlands, North Harrow, Middlesex.

MICROBIOLOGY GROUP, SOCIETY OF CHEMICAL INDUSTRY, Medical Society of London, 11 Chandos Street, Cavendish Square, London, W.1, at 6.15 p.m. Dr. M. Lumb on "The Lesser Known Antibiotics."

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY, Allen & Hanburys, Ltd., Ware, Herts. Visit.

Friday, March 18

FINE CHEMICALS GROUP, SOCIETY OF CHEMICAL INDUSTRY, Westminster Medical School, Horseferry Road, London, S.W.1, at 6 p.m. Discussion on "Chemical Aspects of Thyrotoxicosis," introduced by Dr. A. Lawson (Royal Free Hospital School of Medicine), Dr. J. H. Wilkinson (Westminster Medical School) and Professor N. S. Maclagan (Westminster Medical School).

C. & D. RETAIL AND DISPENSING PRICE LIST

The drug index for February was 198.

Cost d.	Cost per	Item	4 oz. s. d.	1 oz. s. d.	1 dr. s. d.
150	500 gm.	Buchu	4 10	1 4	0 2½
36	500 gm.	Crem. zinci., B.P.C. ... 4s. lb.	1 3	0 4	—
126	500 mils	Elixir caffein. iod., B.P.C.	4 1	1 2	0 2
86½	500 gm.	Ferri et ammonii citras	2 10	0 10	0 2
69	500 gm.	Glyc. boracis	2 10	0 10	0 2
72	gm.	Hyoscin. hydrobrom. ... **S1. (4)**	per	grain	0 9
141	500 mils	Inf. rhei. conc.	4 6	1 3	0 2½
70	250 mils	Inf. scoparii conc.	—	1 3	0 2½
146	250 mils	Inf. senegae conc.	4 9	1 4	0 2½
93	500 mils	Linct. methadon., N.F. ... **D.D.**	3 0	0 10	0 2
216	2 litres	Lin. methyl salicylatis, B.P.C.	1 9	0 6	0 1
69	100 mils	Liq. carmini	—	2 9	0 5
93	25 gm.	Menthol	—	—	2 6
180	500 mils.	Narist. naphazolin, B.P.C.	—	1 8	0 3
30	oz.	Neb. isoprenalin sulph.	—	4 6	—
180	500 mils	Ol. amygdalæ	5 10	1 8	0 3
51	25 gm.	Ol. cari	—	—	1 5
108	100 gm.	Ol. lavand. spic. Gall.	—	4 4	0 8
180	500 gm.	Pasta resorcin. co., B.P.C.	5 10	1 8	0 3
48	500 mils	Pig. magentae (meth.), B.P.C.	1 7	0 6	0 1
116	500 gm.	Potassii phosphas, B.P.C.	3 9	1 0	0 2
54	litre	Syr. tolutanus	0 11	0 3	—
81	500 mils	Tinct. arnicæ florum	2 7	0 9	0 2
168	250 gm.	Tragacantha	—	6 9	1 0
180	250 gm.	Tragacanthae pulv.	—	7 3	1 1
144	500 gm.	Ung. acid. tannic.	4 8	1 4	0 2½

The bold letters and figures at left of dispensing price relate to classification of poisons in THE CHEMIST AND DRUGGIST *Poisons Guide*.

SURGICAL DRESSINGS	2½ in. s. d.	3 in. s. d.	3½ in. s. d.	4 in. s. d.
Cotton and elastic net bandage, B.P.C. (5 yds. stretched)	3 4	4 0	4 8	5 4

C. & D. WEEKLY LIST OF PRICES

A=Advanced; R=Reduced; I.R.P.=Inclusive Retail Price; *=Tax 25 per cent.; †=Tax 75 per cent.

BICKIEPEGS, LTD. (distributors: **ROBERTS & CO., LTD.**) (from April 1)

	Doz.	I.R.P.	
Bickiepegs	9 0	1 0	*A*
	14 3	1 7	*A*

CONTINENTAL LABORATORIES, LTD. (from March 7)

	Doz.		
Neutraphylline tablets			
250 x 0·20 gm.	330 0	41 3	*R*
1,000 x 0·20 gm.	1,254 0	156 9	*R*

DALMAS, LTD. (from March 1)

Nu-san jelly*	2 oz.	20 0	3 0 *A*
	4 oz.	34 0	5 0 *A*
	lb.		
	16 oz.	8 6	15 0 *A*
	Doz.		
Burnojel*	2 oz.	20 0	3 0 *A*
	4 oz.	34 0	5 0 *A*
	lb.		
	16 oz.	8 6	15 0 *A*
	Doz.		
Arthene*	1 oz.	17 0	2 6 *A*
	2 oz.	20 0	3 0 *A*
	4 oz.	34 0	5 0 *A*
	lb.		
	16 oz.	8 6	15 0 *A*
	Doz.		
Arthradol*	2 oz.	20 0	3 0 *A*
	4 oz.	36 0	5 3 *A*
	lb.		
	16 oz.	8 6	15 0 *A*
	Doz.		
Cuprodine*	1 oz.	20 0	3 0 *A*
	4 oz.	34 0	5 0 *A*
	lb.		
	16 oz.	8 6	15 0 *A*

All 16-oz. jars are charged 3s. each extra, returnable.

PFIZER, LTD.

Terramycin:—		Each	
ophthalmic ointment	1	4	*R*
ophthalmic solution	6	1	*R*
oral suspension	12	0	*R*
otic solution	4	4	*R*
pædiatric drops	8	2	*R*
soluble tablets	11	8	*R*
sugar-coated tablets			
16 x 250 mg.	32	2	*R*
100 x 250 mg.	193	6	*R*
1,000 x 250 mg.	1,869	2	*R*
25 x 100 mg.	23	8	*R*
100 x 100 mg.	89	4	*R*
25 x 50 mg.	12	0	*R*
100 x 50 mg.	45	0	*R*
topical ointment	9	2	*R*
vaginal tablets	11	6	*R*

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD. (to trade from March 9; to public from April 12)

Anthisan			
tablets 0·05 gm.,	25	2 3	*R*
	100	8 3	*R*
	500	37 3	*R*
tablets 0·10 gm.,	25	3 3	*R*
	100	12 0	*R*
	500	50 0	*R*
Effective March 7:—			
M&B 693 Soluble			
ampoules 10 x 1 gm.		13 3	*A*
Neo-Hydriol fluid			
ampoules 1 x 10 c.c.		7 6	*A*
1 x 15 c.c.		10 0	*A*
Propamidine ophthalmic			
solution ½ oz.		3 0	*A*

P.A.T.A PROTECTED LIST

ALLIED LABORATORIES, LTD. (new packs)

Asmotil P*	75	72 0	10 6
Asmotil S*	25	25 0	3 7
composite pack*			
75 P, 25 S		84 0	12 0

Tax-free dispensing packs of Asmotil P and Asmotil S are also available.

THE BRITISH DRUG HOUSES (from March 1)

Salimax*	16	0	2 4 *A*

CHESEBROUGH MFG. CO., LTD. (addition)

Vaseline hair cream†	13	9	2 6
In Channel Islands	13	9	1 7

CRYSTAL PRODUCTS CO., LTD. (addition)

Outdoor Girl Secret Love perfume†	8	0	1 6

P.A.T.A. YEAR BOOK CORRECTIONS

MODERN HEALTH PRODUCTS, LTD.

Natex* (Nos. 1, 2, 4, 5, 9, 11, 12a, 12a special, 16, 30, 31 and 32)	47 10	6 6	
	137 0	18 7½	
Natex vegetable soap* 3 oz.	6 9½	11	
Vegetex concentrate*	39 2	5 4	
	74 0	10 0½	
Educol concentrate*	39 2	5 4	
Krunz health food	12 9	1 5	

NEW PRODUCTS AND PACKS

ABBOTT LABORATORIES, LTD.

Erythrocin stearate Filmtabs	Each		
500	1,073 4	1,610 0	

AYRTON SAUNDERS & CO., LTD.

	Doz.		
Burn cream*	9 6	1 6	

BURROUGHS WELLCOME & CO.

Aroxine pessaries	30	5 6	
	500	54 0	

CONTINENTAL LABORATORIES, LTD.

Neutraphylline ampoules			
50 x 3 c.c.	480 0	60 0	

EVANS MEDICAL SUPPLIES, LTD.

		Each	
Fotogel	2 litre	17 0	24 9

The price includes 1s. 6d. container allowance.

Correction:—

Comprox	2 litre	8 0	
	4 gall.	40 0	

IMPERIAL CHEMICAL (PHARMACEUTICALS), LTD.

Lorexane aerosol insect spray		Doz.	
	4 oz.	44 0	5 3

MOORE MEDICINAL PRODUCTS, LTD.

		Each	
Noctynol tablets	50	6 0	

PHOTOGRAPHIC DEPARTMENT

Developing and Printing Prices, 1955

Photographic Dealers' Association national scale in operation from April 1, 1955

DEVELOPING

Roll Film (*other than miniature*)	Per spool
Ordinary	1 3
Fine-grain	1 6
Bantam and similar	1 3

Total failures, 50 per cent. charge.

Miniature spools (24 x 36 mm. negatives and smaller)

One to eighteen exposures	2 0
Nineteen to thirty-six exposures ...	2 6

Total failures, 50 per cent. charge.

Plates and Sheet Film (*minimum charge sixpence*)

Up to 2½ x 3½ in.	each 3
4 x 5 in.	each 4

CONTACT PRINTING (*masked or unmasked*)

Paper size up to 2½ x 3½ in.	each 3½
3½ x 4½ in.	each 4
3½ x 5½ in.	each 4½

Sepia toning, 50 per cent. extra.

Miniature contact printing (24 x 36 mm. and *smaller negatives*)

Single prints, masked ... ... each 3½

From two or more adjacent negatives (unmasked) priced according to size of paper used.

Strip-prints (on paper) *from 35-mm. films*

	Per strip
One to eighteen exposures 24 x 36 mm.	2 6
Nineteen to thirty-six exposures 24 x 36 mm.	3 6

EN-PRINTS

From the whole of the negative only, magnified as large as possible on 3½ x 4½ in. paper.

Black and white	each 6
Sepia toned	each 9

ENLARGEMENTS

First-quality from any selected portion of the negative, including shading, vignetting and spotting if required. Dimensions quoted are standard sizes of enlarging papers, and subject to trimming. The varying proportion of length to width in negative often necessitates trimming the finished picture to correspond.

Paper size	*B.&W.*	*Sepia*	*Mounting*
Up to 3½ x 5½ in. (postcard)	9	1 1½	—
4¼ x 6½ in. (¼-plate)	1 6	2 3	1 6
6½ x 8½ in. (whole-plate)	2 6	3 9	2 0
8 x 10 in. ...	3 6	5 3	2 6
10 x 12 in. ...	4 6	6 9	—

" Foursquare " enlargements (from square negatives only)

Whole of the negative only on 4¼ x 4¼ in. paper glossy or semi-matt.

Black and white	each 9
Sepia	each 1 1½

Postcard-size enlargements (3½ x 5½ in.) from whole or any selected part of a negative.

Black and white	each 9
Sepia	each 1 1½

COPY NEGATIVES

From photographic originals only (books, maps, etc., charged extra).

Up to ¼-plate ...	3 0	3¼ x 5½ in. ...	4 0
4¼ x 6½ in. ...	5 0	6½ x 8½ in. ...	10 0

Orders for printing and reproducing are accepted on the implied condition that the customer is legally entitled to dispose of the copyright in the photograph or photographs and will indemnify the dealer against any damages, costs or other expenses whatsoever incurred by him in consequence of any breach thereof.

LANTERN SLIDES

From customers' negatives 3¼ x 3¼ in. or 2 x 2 in.

Bound complete	each 3 0
Unbound, and without cover glass...	each 2 0
Masking and binding between cover glass customers' own transparencies	each 1 0

Sepia toning, 50 per cent. extra.

AFTER-TREATMENT

Cleaning, washing, intensifying, reducing, etc.	
Single negatives	9
Each additional negative	3
Blocking out, according to work required	minimum 1 0

Cameras, Equipment and Chemicals

I.R.P.=Inclusive Retail Price; ‡=Tax 50 per cent.

	I.R.P.
JONATHAN FALLOWFIELD, LTD.	
Unitel multi-heat plate	70 0
G. B. EQUIPMENTS, LTD.	
G. B. Kershaw 110 camera‡	119 10
630‡	198 9
R. F. HUNTER, LTD.	
Paterson contact printer	35 0
Paterson transparent spiral Universal tank	32 6
Paterson Major 35 tank	30 0
Paterson 2 x 2 viewer	12 6
ILFORD, LTD.	
Ilford Envoy camera‡	39 9
ILFORD, LTD.	
Microphen developer	3 6
	9 6
	37 6
	60 0
Duraphan supplementary lens‡ 1	5 4
supplementary filter‡	4 8
(other prices pro rata)	10 3
Durafit filter mount‡	7 11
lens hood‡	7 11
PHILIPS ELECTRICAL, LTD.	
Philips PFI capless flash-bulb	8
adapter	1 6
NEVILLE BROWN & CO., LTD.	
Aldis 100 projector	252 0
Aldis 250 projector	336 0
Polly-min developing tank	25 0
Cameras‡ :—	
Gloriette 8-speed shutter	399 0
4-speed shutter	357 0
Gloria 4-speed	378 0
svs	437 6
Paxette 1	437 6
Paxette Im.	495 0
Paxina 4-speed	294 0
svs	357 0
J. J. SILBER, LTD.	
Hexi camera‡	63 0
Luxette camera‡	98 6
Luxette S camera‡	114 6
Mini-rex II exposure meter	97 6



Clearing the Channel

An action firm but gentle, prompt but lasting—that is the requirement when clearing nasal congestion. 'Vasylox', a new vasoconstrictor, meets this need. 'Vasylox' restores free breathing without causing central stimulation, sleeplessness, or interference with ciliary motility. Neither irritating nor stinging, it may be used for patients of any age, even for infants. 'Vasylox', which contains 0·25 per cent of methoxamine hydrochloride, is issued in 1/2 oz. bottles with separate dropper.

'VASYLOX' BRAND **FOR NASAL CONGESTION**

SOLUTION OF METHOXAMINE HYDROCHLORIDE

BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION LTD.) **LONDON**

Women today,

more than ever before, are believing that . . .



. . . IF IT'S

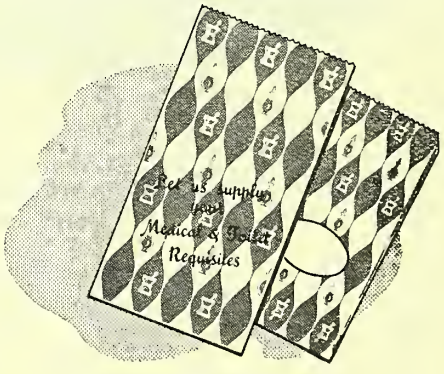
Evan Williams

IT'S GOOD FOR THE HAIR!

EVAN WILLIAMS HAIR BEAUTY PREPARATIONS · SHAMPOOS
COLOUR RINSES · BRILLANTINE · WAVE SET

It's the constant repeat orders for

Certor PRINTED COUNTER SATCHELS



which prove that

1. **The designs are right**
2. **The prices are right**

When orders for Certor printed Counter Satchels are constantly repeated, and when the repeat orders are in many cases much larger than the initial orders, you may be sure that both for design and price they are just right!

OWN-NAME PRINTING is available — maximum, four printed lines — at small extra cost.

★

Counter Satchels, Dispensing Satchels, plain and printed bags, and wrapping papers of all kinds, subject to discounts under our Dispensing Sundries Discount Scheme.

THESE ATTRACTIVE SATCHELS, keenly-priced, bright and modern in design, are a convenient wrapping for the smaller purchases. There are two distinctive designs, each in two sizes:

CERTOR NO. 1 5″ x 7″ x 9½″ **CERTOR NO. 2** 5″ x 7″ x 9½″

CERTOR NO. 1B 4″ x 5¾″ x 7½″ **CERTOR NO. 2B** 4″ x 5¾″ x 7½″

MACDONALD & SON LTD · HOPE MILLS · POLLARD STREET · MANCHESTER 4

THE NATION'S SUPER-SALESMAN SAYS:



"BEMAX gives an additional flavour to your sales"

BEMAX in two flavours! BEMAX has always been a first-rate seller. The new additional chocolate flavour will win considerably greater sales, particularly when advertised in the RADIO TIMES. Going into sixty out of every hundred homes in your district, and working a nine-day week for you, the RADIO TIMES has a second-to-none reputation for creating sales. Show the two flavours of BEMAX in your window, on your counter, and you are bound to benefit.

Stock and DISPLAY goods advertised in the

RADIO TIMES

All enquiries from advertisers to: HEAD OF ADVERTISEMENT DEPT.
BBC Publications, 35, Marylebone High Street, London, W.1.

Pattinson's REGISTERED BRAND PRODUCTS

- LIGHT & HEAVY MAGNESIUM CARBONATES B.P.
- LIGHT & HEAVY MAGNESIUM OXIDES B.P.
- MAGNESIUM OXIDE LEVISSIMA
- MAGNESIUM HYDROXIDE B.P.C.
- MAGNESIUM TRISILICATE B.P.
- CREAM OF MAGNESIA B.P.

Our Research Division welcomes enquiries from any manufacturer with a problem in which any of the above products are concerned. Please write to our Sales Technical Department if you require fuller information.

for the **PHARMACEUTICAL** *Industry*

THE WASHINGTON CHEMICAL CO. LTD.

A member of the TURNER & NEWALL ORGANISATION

WASHINGTON · CO. DURHAM · ENGLAND

BRANNAN
GUARANTEED
THERMOMETERS

CLINICAL - HOUSEHOLD - INDUSTRIAL

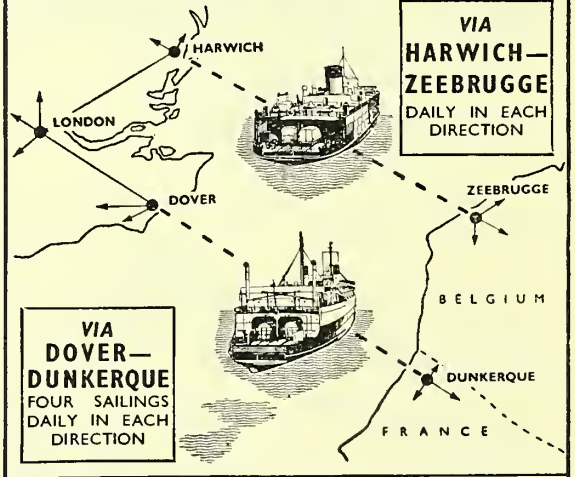
When ordering Thermometers, insist upon Brannans — made by highly skilled workers at Britain's most modern Thermometer Factory.

S. Brannan & Sons Ltd.
Clinitherm Works,
Dalmain Road, Forest Hill,
London, S.E.23
Telephone: Forest Hill 3414 P.Ex.

Northern Factory:
Cleator Moor
West Cumberland
Tel: Cleator Moor 310



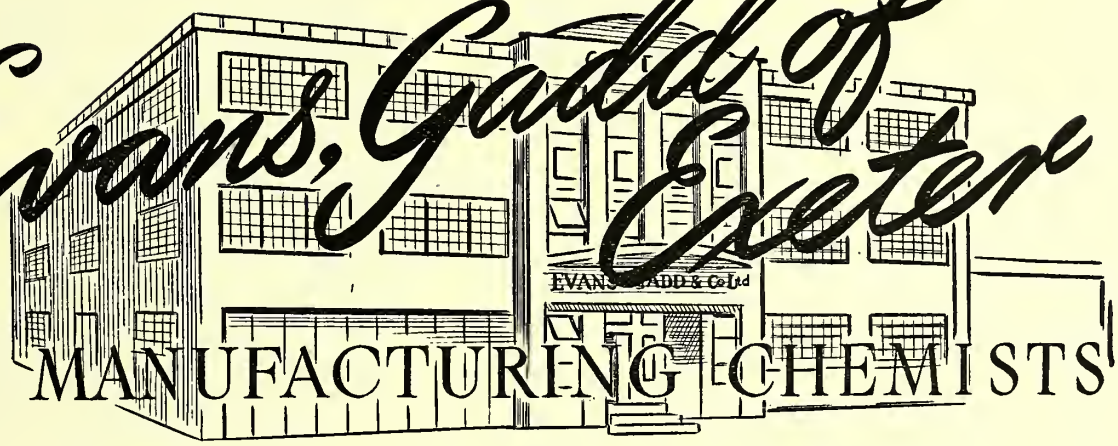
SENDING GOODS IN THROUGH WAGONS
FROM ALL PARTS OF BRITAIN
TO THE CONTINENT
BY TRAIN FERRY
SAVES TIME · PACKING · HANDLING



Full particulars from: Continentol Superintendent, Victoria Stotion, London, S.W.1, for Dover route and from Continental Troffic Monager, Liverpool St. Stotion, London, E.C.2, for Horwich route.

BRITISH RAILWAYS

Evans, Gadd of Exeter



MANUFACTURING CHEMISTS

Drugs, Galenicals, Packed Goods and Sundries
for the Pharmaceutical Trade

Wholesale Distributors of Ethical Specialities and Proprietary Medicines

Regular van deliveries cover the West of England • Return of post service for urgent items

EVANS, GADD & CO., LTD., EXETER

Telephone : Exeter 2278 (3 lines) Established 1790 ***Telegrams :*** Gadd, Exeter

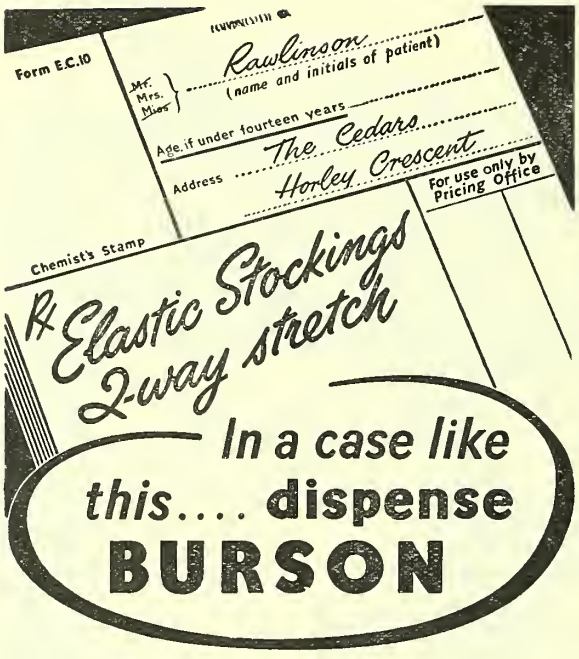
Eye Appeal...

Is easily applied to
YOUR PRODUCTS, with
DISTINCTIVE LABELS

from

SUTTLEY & SILVERLOCK
(Branch of Kelly's Directories Ltd.)
ANDOVER
Hants

LABELS • CARTONS • PRINTED STATIONERY



Burson Stockings, made exclusively on special knitting looms, are the product of ten years' intensive research into the making of surgical stockings.

Always dispense **and recommend** Burson 2-Way Stretch Hosiery and ensure your customers' complete satisfaction. The quality—finish—colour and durability of Burson Hose make them the first choice of those who appreciate the best. Burson Stockings are fully fashioned and virtually indiscernible in use.

Burson Stockings are advertised in the Medical Journals and in a strong list of National Weekly Newspapers and Women's Magazines.

DISPENSE BURSON whenever 2-way stretch elastic or Lastex hosiery is prescribed

*

AVAILABLE FREE ON REQUEST WITH BURSON STOCKINGS:—

- *Instruction Chart with details for measuring, fitting and exact adjustment to fit and tension.*
- *Individual Measurement and Order Forms.*
- *Instructions for mending and washing.*

BURSON

TWO-WAY STRETCH HOSIERY IS MADE FROM LASTEX YARN

Sole Distributors:— FASSETT & JOHNSON LTD.,
86, CLERKENWELL ROAD, LONDON, E.C.1

Still the most reliable remedy for Rheumatism

For nearly 40 years Curicones has been kept abreast of medical research. With its present formula, it is certainly the most reliable general remedy you can recommend to Rheumatic sufferers.

And its advertising is never allowed to get in a rut. Now that it is being stepped up in volume, watch Curicones sales begin to grow. Never let yourself run out of stock of the 5/4, 13/4 or 25/6 sizes.

We still have small supplies left of our novel "weather indicator" showcard. It is most effective and surprisingly accurate. Send us your name and address for one and see the interest it attracts.

CURICONES

CF AND P.A.T.A.

STEPHEN MATTHEWS & CO., LTD.,
19/21 Farringdon Street, London, E.C.4

Kwick-dry

(HOUSEHOLD) PAPER TOWELS

For THE MODERN HOUSEWIFE, SUPPLIED IN ROLLS TO RETAIL AT 1/11d. each.

They save work and kitchen drudgery and are stronger when wet. Of a soft pleasing crepe texture 'KWICKDRY' Towels are very absorbent, can be squeezed like a cloth yet do not disintegrate. They serve a multitude of purposes:

FOR DRYING HANDS, DRAINING FRIED FOODS, CLEANING POTS AND PANS.

Attractive Plastic Holders in colours to match modern kitchen Units supplied at 3/6 ea.

This NEW habit is catching on! Are you cashing in?

Attractive Showcards available on request.

Samples and prices from the Paper Specialists :—



FREEDER BROTHERS PAPER MILLS
BRIMSDOWN · ENFIELD · MIDDLESEX
Telephone: HOWard 1847 (5 lines). Grams: Sylkocrepe, Enfield

IRON IN AN EASILY ASSIMILATED FORM

Ferrous Gluconate

B.P.C.

The new remedy in iron therapy without side effects.
Recommended for tabletting or use in elixirs, etc.
Available for delivery from stock.

A quality product of

KEMBALL, BISHOP & CO., LTD.

CROWN CHEMICAL WORKS

THREE MILL LANE · BROMLEY-BY-BOW · LONDON · E.3.

Telephone: ADVANCE 1234 (7 lines) *Telegrams: KEMBALL, BOCHURCH, LONDON.*

Cash in
ON GREAT TIE UP!

RICHARD HUDNUT
specifies **"KIRBIGRIP"**
REGISTERED TRADE MARK
***RUSTLESS* Quick·Grips**
for their New
pin·Quick Home Perm
Will not stain or tarnish
COMPLETELY RUSTLESS!

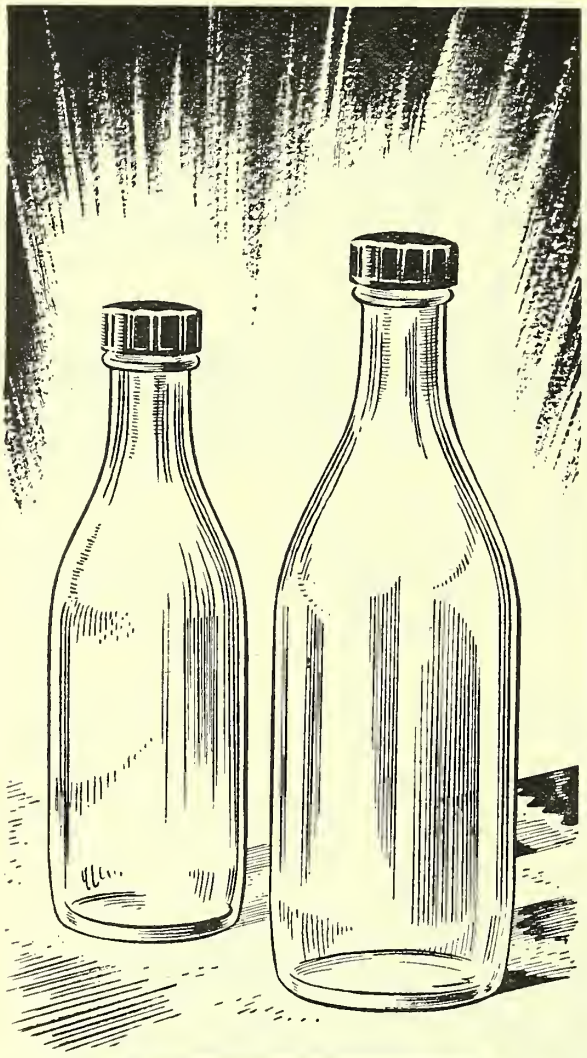


Pack design matches Pin-Quick Display Material for side-by-side selling.

ORDER WITHOUT DELAY!

Sole Makers: KIRBY BEARD & CO. LTD.
BIRMINGHAM, LONDON, REDDITCH & PARIS

WhiteAd 3193



BEATSON

PLASTIC CAPPED

Olive Oils

These bottles greatly enhance the presentation of packed oils. They are available in 2½ oz., 5 oz., 10 oz., and 20 oz., capacities.

BEATSON, CLARK & CO., LTD.

Glass Bottle Manufacturers

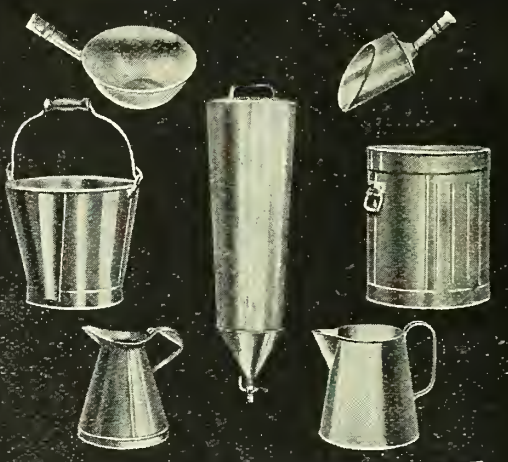
ROTHERHAM *Est. 1751* YORKS

TRADE MARK REGISTERED

"The Sign of a Good Bottle"

B.C.75

MODERN EQUIPMENT



"WEBSTER'S"
STAINLESS STEELWARE

ISAAC WEBSTER & SONS LTD.
ABBEY WORKS
KIRKSTALL
LEEDS. 5.

TELEPHONE 51580 LEEDS

TELEGRAMS "ISAAC WEBSTER KIRKSTALL"

Sells on Sight . . .

KEEN-EDGE

Safety Razor Blade Sharpener

★ Keeps any double-edge blade as sharp as a barber's razor.
★ Gives at least 50 good shaves from a single blade.
★ Scientifically designed and precision made to last a lifetime.
★ Built into a handsome plastic case and attractively boxed.
★ A certain seller for own use or as a present.
★ Attractive display material available.
★ Supported by advertising in national newspapers and magazines.

13/9 RETAIL



Available from your Wholesaler or direct from:

PRECISION SHARPENERS LTD.
(DEPT. C.D.5)
56 Godstone Road, Kenley, Surrey
Uplands 2255



EYE APPEAL

No we are not advertising cosmetics—but we CAN sell them—for you. Glamour, eye appeal, what you wish rightly applied comes down simply to SELLING DISPLAY. That is where SHOMORE equipment can help so much, by displaying the multitude of lines carried by the Chemist, in an orderly yet compelling manner and creating that intangible sales force — Eye Appeal. Let us tell you more about



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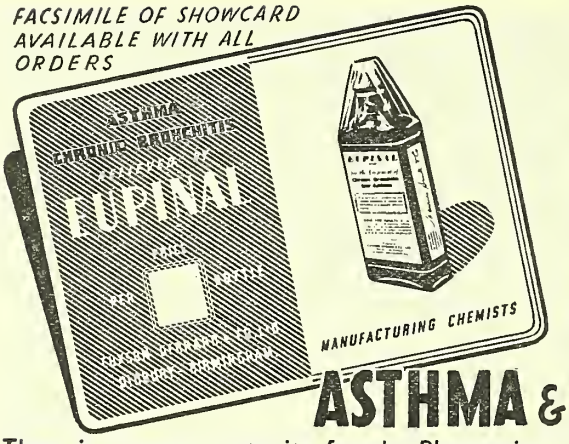
Write NOW for our Booklet

PROFITABLE DISPLAY

PARNALL AND SONS LTD

LODGE CAUSEWAY
FISHPONDS · BRISTOL

FACSIMILE OF SHOWCARD AVAILABLE WITH ALL ORDERS



For 40 YEARS
EUPINAL
(A C.F. LINE)
has been successfully used in the treatment of
ASTHMA & CHRONIC BRONCHITIS

There is every opportunity for the Pharmacist to build sound and profitable business with this old established preparation.
"Eupinal" contains Ammonium caffeine iodide in a most elegant and effective combination.
In Chronic Bronchitis "Eupinal" softens the tough accumulated mucus in the bronchial tubes and allows it to be more readily expectorated. In Asthma it possesses a markedly soothing effect, lessening the frequency of attacks and reducing their severity and duration, and relieving breathlessness.
"Eupinal" contains no poison and may be taken for prolonged periods.

EUPINAL IS ADVERTISED TO THE MEDICAL PROFESSION AND IS PRESCRIBABLE ON E.C.10.

PRICES

	Retail each inc. tax	Purchase tax doz.	Trade Price doz.
4 oz.	3/8	6/7½	26/6
8 oz.	6/6	12/-	48/-

Bonus—THIRTEEN to the Dozen.
DISPENSING PACK—40 oz.—17/6 (tax free) each.

A PRODUCT OF
Cuxson Gerrard & Co. Ltd.
OLDBURY BIRMINGHAM
Phone: Broadwell 1355

RHINAMID BAILLY
(Sch. IV)

An Aqueous Isotonic Solution indicated in Rhino-Pharyngeal Affections

Available through all wholesale houses, and being vigorously introduced to the Medical Profession.

PACKINGS
YOUR PRICE—35 c.c. Bottle 31/6 per doz.
Dispensing Packs—8 fl. ozs. 10/- net.
80 fl. ozs. 80/- net.
RETAIL PRICE—35 c.c. Bottle ... 3/6 ea.

VELTIS
MEDICATED
EMOLLIENT CREAM

NON-GREASY, PERFUMED AND NON-PERFUMED

Veltis soothes irritated and roughened Epidermis

RESTORES AND MAINTAINS A SMOOTH TEXTURE

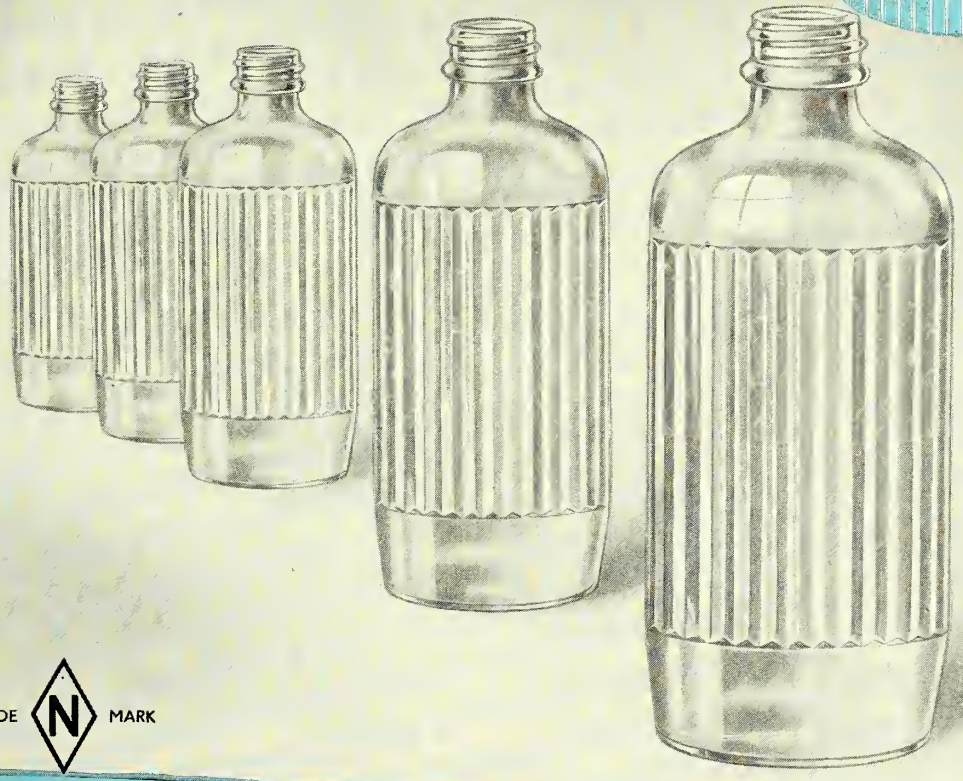
Invaluable in all seasons for the care and protection of the skin, and equally suitable for baby's toilet.

Packings and Prices	Retail	Price per doz.	P. Tax
40 gm. tube (Unperfumed)	1/9	12/6	3/1
40 gm. tube (Perfumed)	2/4	12/6	9/2
2 oz. jar ,,	4/-	22/-	16/1½
2 oz. jar (Unperfumed)	3/-	22/-	5/4½
1 lb. jar ,,	—	12/-	3/- each
1 lb. jar (Perfumed)	—	12/-	9/- each

BENGUE & CO., LTD.
Manufacturing Chemists, MOUNT PLEASANT, ALPERTON, WEMBLEY, MIDDX.

Quality in White Flint Glass Containers

RIBBED OVALS



TRADE N MARK

DISPENSING BOTTLES 1-oz. to 20-oz.
BOW-FRONT PANELS 1-oz. to 8-oz.
TABLET BOTTLES Nos. 1 to 7½ sizes.
ROUND SCREW JARS Tall and Semi-squat.
RIBBED OVALS ½-oz. to 16-oz.
PANELLED FLATS 1-oz. to 4-oz.
OLIVE OIL BOTTLES 2½-oz., 5-oz. & 10-oz.
VIALS ½-oz. to 3-oz.

WHOLESALE ONLY

NATIONAL GLASS WORKS (YORK) LTD.
FISHERGATE, YORK. Tel. YORK 3021.
ALSO AT 105 HATTON GARDEN, LONDON, E.C.1.
TEL. HOLBORN 2146

- Prompt delivery from stock
- Packed in easily handled cartons

Bow-Front Panels now also available in 16 oz. size

Ortho

leadership in obstetric and gynæcological pharmaceuticals

Aci-Jel: For restoration and maintenance of normal vaginal acidity. Bland, non-irritating highly buffered acid jelly for topical use in treatment of vaginitis.
Aci-Jel: 85 gm. tube with or without applicator.

Triple Sulfa Cream: For bacterial vaginal infections. Combines three sulphonamides with urea peroxide for more effective control of a wide variety of vaginal pathogens. Relieves symptoms promptly, eliminates malodorous discharge.
Triple Sulfa Cream: 80 gm. tube with or without applicator.

Dienoestrol Cream: Vaginal oestrogen therapy for senile and atrophic vaginitis and postmenopausal pruritus vulvae. Contains 0.1 mg. of the synthetic oestrogen dienoestrol per gram of cream base.
Dienoestrol Cream: 80 gm. tube with or without applicator. Also available in 28 gm. tubes for general application as prescribed.

Massé Nipple Cream: For prevention and treatment of cracked nipples. Contains the safe, effective antiseptic 9-amino acridine and allantoin. Dainty, aesthetic, emollient and healing. Does not interfere with nursing. Ideal for antepartum nipple conditioning and postpartum nipple care.
Massé Cream: 28 gm. tube, individually boxed.

Hexital: For relief of menopausal symptoms. Combines 3 mg. of the synthetic oestrogen hexoestrol with 20 mg. of phenobarbital. Oestrogen effect plus mild sedation provide more complete control of menopausal symptoms.
Hexital: Bottles of 100 and 500 tablets.

Nidoxital: Controls nausea and vomiting of pregnancy with pyridoxine, dl-methionine, nicotinamide, benzocaine, and pentobarbital. Effective relief in 24 to 72 hours in most cases.
Nidoxital: Bottles of 12, 20 and 100 capsules.

Rarical: (Ferrous Calcium Citrate Tablets). Provide an improved source of iron and calcium for the anaemic, pregnant, aged or juvenile patient.
Rarical: Bottles of 50, 100 and 1000 tablets.

Nutri-Sal: A Ringer-type/glucose douche designed to promote fertility in selected cases by virtue of its ability to enhance sperm survival and migration.
Nutri-Sal: Packages of 3 vials, each sufficient for 1 pint douche solution.

Ortho

Ortho Pharmaceutical Limited

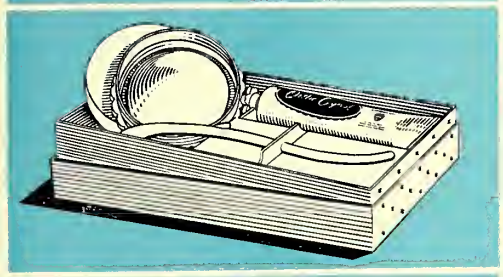
HIGH WYCOMBE · ENGLAND

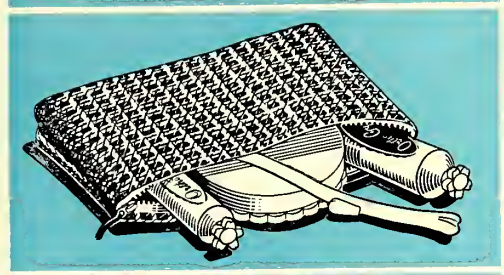


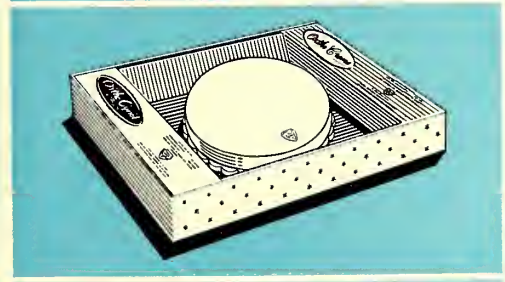


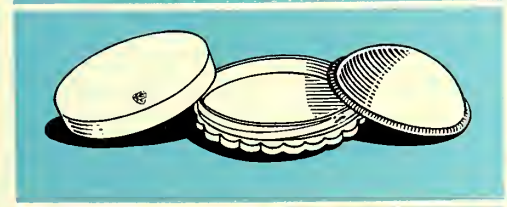
















Ortho

the ethical name in contraception

Preceptin Vaginal Gel: contraceptive gel for use without a diaphragm.
Package A: 85 gm. tube, with Ortho Applicator.
Package B: 85 gm. tube.

Ortho-Gynol: contraceptive jelly.
Package A: 85 gm. tube, with Ortho Applicator.
Package B: 85 gm. tube.

Ortho-Creme: contraceptive cream.
Package A: 75 gm. tube, with Ortho Applicator.
Package B: 75 gm. tube.

Ortho-Gynol Set:
85 gm. tube of Ortho-Gynol
Ortho Diaphragm } in sizes 55 to 95
Ortho Diaphragm Introducer } (in 5 mm. gradations).

Ortho-Creme Set: as Ortho-Gynol Set with tube of Ortho-Creme instead of Ortho-Gynol in sizes 55 to 95 (in 5 mm. gradations).

Ortho De Luxe Kit: containing full size Ortho-Gynol, trial size Ortho-Creme, Ortho Diaphragm and Diaphragm Introducer in woven plastic zipper bag. Sizes 55 to 95 mm. (in 5 mm. gradations).

Ortho Diaphragm Duo-Pack: containing:
Ortho Diaphragm in sizes 55 to 95 (in 5 mm. gradations).
Trial size Ortho-Gynol.
Trial size Ortho-Creme.

Ortho Diaphragm: coil spring, sizes 55 to 95 (in 5 mm. gradations).

Ortho-White Diaphragm: flat spring, sizes 55 to 95 (in 5 mm. gradations). Each Ortho Diaphragm is packed in a permanent and beautiful plastic box.

Ortho Applicator: for vaginal application of measured dose (5 cc.) Ortho-Gynol, Ortho-Creme or Preceptin Vaginal Gel.

Ortho Diaphragm Introducer: individual introducers to accommodate diaphragms sizes 55 to 95 (in 5 mm. gradations).

Ortho

Ortho Pharmaceutical Limited

HIGH WYCOMBE · ENGLAND

THERE'S ALWAYS A CUSTOMER FOR JOHN BELL'S COLD CAPSULES





Few will get through this winter without having had a Cold, Feverish Chill or Influenza. Order supplies today for the many who will certainly ask for

JOHN BELL'S COLD CAPSULES

Display the handy pack and get the maximum benefit from impulse sales.

BONUS DISPLAY TERMS

13 for every dozen on orders of 3 dozen and over: attractive display stands supplied.

Retail price 1/10d. (Inc. Tax) per tin.

Trade 11/6d. per dozen. (P. Tax 2/10½d.)

JOHN BELL, HILLS & LUCAS LTD.
Oxford Works, Worsley Bridge Road, London, S.E.26

Spring is treacherous.
Lots of customers will be asking you for a remedy for colds and catarrh - **sell them**

BESORBON
REGD. TRADE MARK

MEDICINAL SNUFF

*the **proved** remedy*

Your wholesaler can supply you promptly. Orders of one dozen come in attractive counter display box for

MORE SALES—MORE PROFIT

KEMSALES LTD., 20 EASTCHEAP, LONDON, E.C.3

For acidosis... recommend

Rayner's Lembar

all the year hot or cold



Lemons
Glucose
Scotch Barley
Sugar

MADE BY RAYNER AND COMPANY LIMITED, LONDON, N.18

RAUDIXIN

STANDARDISED Rauwolfia serpentina for uniform hypotensive activity

It has not been demonstrated that any single alkaloid has all the beneficial effects of Raudixin, the whole root of Rauwolfia serpentina, standardised by animal assays to ensure uniform activity.

Raudixin Tablets, 50 mg., bottles of 25, 100 and 1,000.

SQUIBB

E. R. SQUIBB & SONS, 17-18, OLD BOND STREET, LONDON, W.1.

AMINOPHYLLINE
POTASSIUM IODIDE
RUTIN
THEOPHYLLINE ALKALOID

QUALITY COUNTS
—CHEMICALS AND
DRUGS FROM

AGAR AGAR
CAMPHOR
RAUWOLFIA SERPENTINA
SLIPPERY ELM BARK

Gerhardt

C. F. GERHARDT LTD. 5, FENCHURCH STREET, LONDON, E.C.3. Tel: MANsion House 5095 Grams: STRYCHNINE, LONDON

TONGUE DEPRESSORS

★ LOWEST PRICES SINCE THE WAR

IMPORTED—PRE-WAR QUALITY

Size 6 in. x ¾ in. x 2 mm. thick. Danish beech, perfectly finished.
Boxed 100's. Minimum order 10,000.

Annual contracts may be spread over a year, entitling buyers to reduced prices, and deliveries as required. Write for details.

APPLICATORS, First-quality hard-wood applicators, packed in cartons of 6 gross.

Wholesale Houses only supplied.

ASHWOOD TIMBER INDUSTRIES LTD.

Specialists in Veneer and Plywood Products for all Trades.

IBEX HOUSE, MINORIES, LONDON, E.C.3
Tel.: ROYal 2494 Cables: ASHTIM, LONDON

FOR IMMEDIATE AND FUTURE DELIVERY

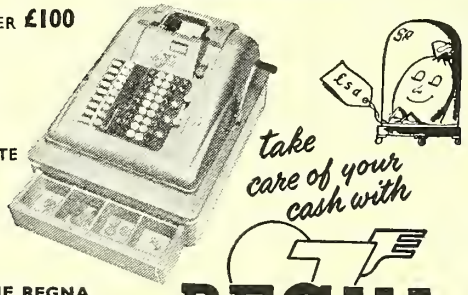
FOLIC ACID

B.P./U.S.P.

For Home and Export

McKESSON & ROBBINS LTD.
"UNIVERSAL HOUSE"
Southwark Bridge · London · S.E.1
Telephone: WATerloo 3516/7/8

PRICES UNDER £100
H.P. TERMS
DELIVERIES EX STOCK
MAY WE DEMONSTRATE



take care of your cash with

THE REGNA CASH REGISTER COMPANY
(Proprietors: The Joeli Safe Co. (London) Ltd.)
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York Place, Adelphi, London, W.C.2

REGNA CASH REGISTER

WALES LANDS END

Our speedy service for all chemists' supplies is assured by **REGULAR ROAD DELIVERIES** in the West of England and S. Wales areas

FERRIS AND CO LTD · BRISTOL
Manufacturing and Wholesale Chemists
Telephone BRISTOL 21381 · *Telegrams* FERRIS, BRISTOL

One Shilling & Sevenpence PROFIT on each sale!



NERVONE

REGD

Retail Prices
5s. 8d.
22s. 7d.
Incl. P.T.

The New Biochemic Tablet

'NERVONE', CECIL HOUSE, HOLBORN VIADUCT, LONDON

THIS IS WHY...

the trend is to

TAMPAX*

IN THE UNITED KINGDOM

202,000,000 Advertisements for Tampax appear in the National Newspapers and Women's Magazines every year.

1,750,000 Advertisements for Tampax appear in the Medical Press every year.

34,000 Nurses and Students visit Tampax Stands at Exhibitions every year.

95,000 Point of Sale Display Pieces are distributed every year.

38,000 Women write for samples of Tampax every year.

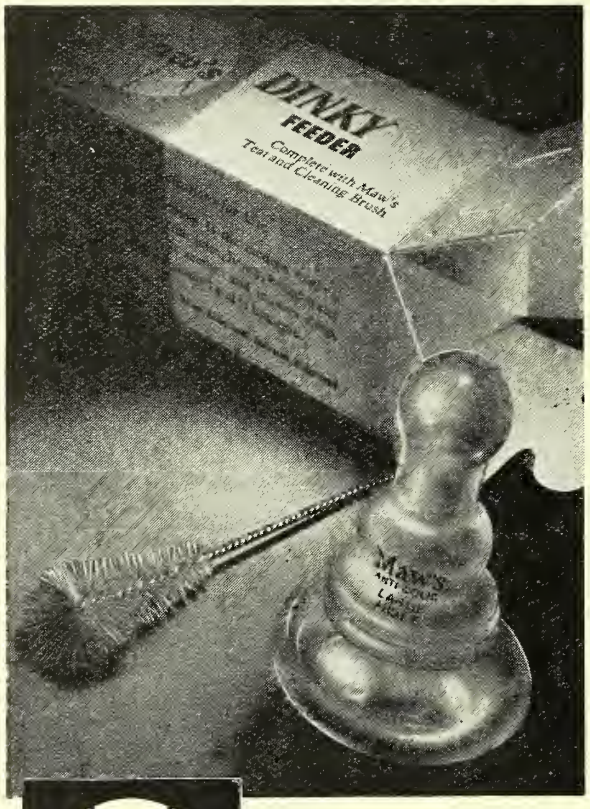
20,000 Women in Industry attend Tampax special lectures each year.

TAMPAX LIMITED

BELVUE ROAD, NORTHOLT, GREENFORD, MIDDLESEX

* *Registered Trade Mark*

First in feeders



Maw's Dinky Feeder

The first name in feeders—and the first for baby's needs. A unique miniature feeder and pacifier combined. The ideal way of giving orange-juice, medicine or a soothing drink. Introduce the Dinky to customers. (You'll sell more Maw's Teats, too!)

Nationally advertised to boost your sales

In attractive display outer	Retail, in outer complete with cleaning brush and plaquetted teat
14/6 per doz. or 2 dozen at 14/- per doz.	**1/9**

S Maw Son & Sons Limited Barnet England

LAPORTE
Fine Chemicals

HYDROGEN PEROXIDE

Benzoyl Peroxide
Organic Peroxy Compounds
Magnesium Peroxide, Zinc Peroxide
Urea Hydrogen Peroxide
Sodium Perborate
Sodium Percarbonate
Persulphates
Titanium Dioxide
Barium Sulphate B.P.
Sodium Lauryl Sulphate
Emulsifying Waxes

LAPORTE CHEMICALS LTD., LUTON
Phone: Luton 4390 Grams: "Laporte Luton"

Stick to a Profitable Line

- ★ Shiny and attractive to flies, Honeypot flypaper catches them in their hundreds.
- ★ Traps them and holds them fast for good. And D.D.T. reinforcement makes it a hygienic method.
- ★ Guaranteed to remain fresh in store for 3 years!
- ★ Sells in display boxes of 6 dozen and in standard cartons of 6 gross (containing 12 display boxes).





Selling price to public **3***d. each*

To retailers:

Under 3 gross ... ... **27/-** gross
3-5 gross ... ... **24/9** gross
6 gross ... ... **24/-** gross

Special prices for larger quantities

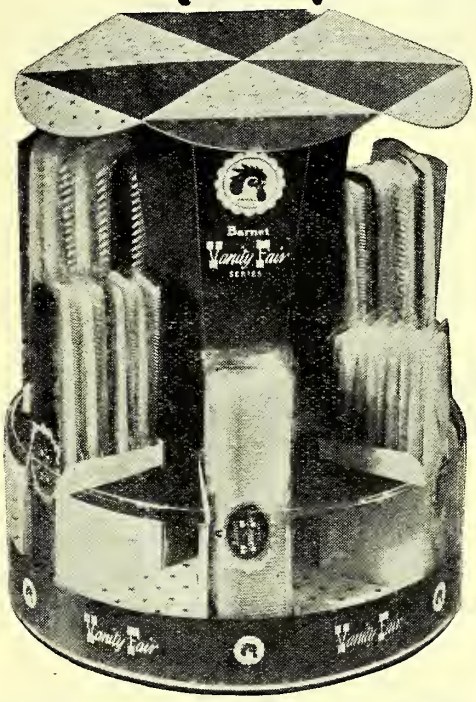
Honeypot FLYCATCHERS

Made and Distributed by

KAY BROTHERS LIMITED

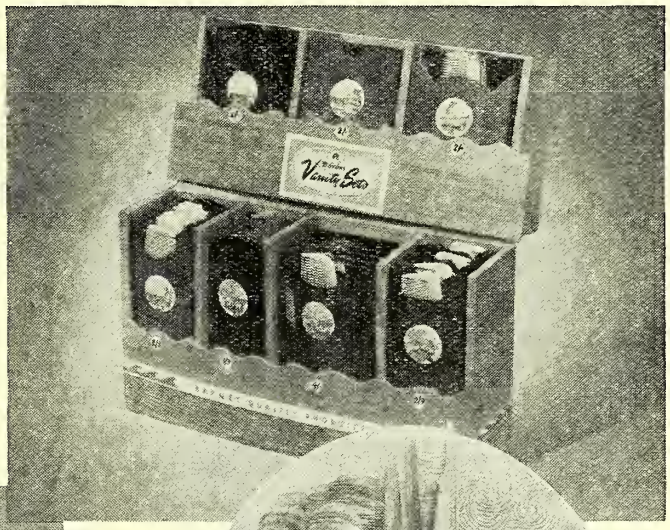
Manufacturing Chemists **Reddish, STOCKPORT**

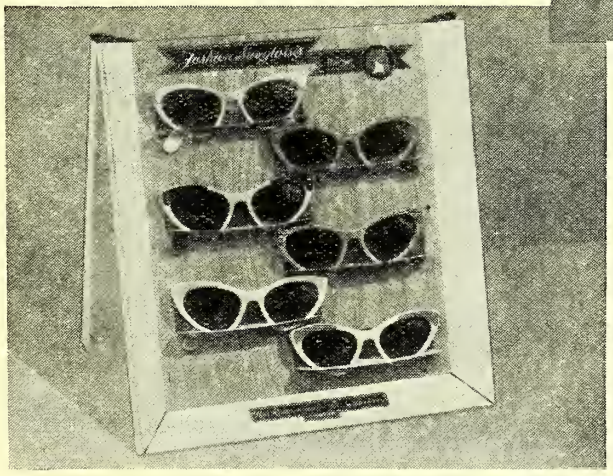
Join the **Barnet** Profits Drive For Record Sales in '55

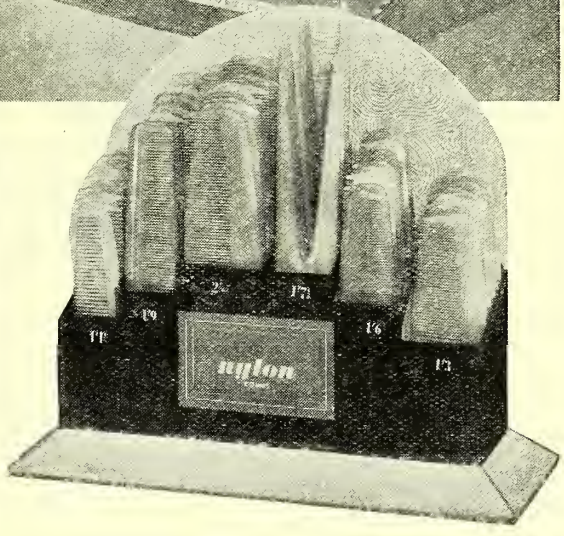


It's boom year—and these are the goods to help you profit from it. Brisk selling Barnet lines in eye-catching display and dispenser packs. Newly designed for this year's market. Top value at moderate prices.

Barnet is the name for well-tested products with a gay new twist.







COMBS & CASES · SUNGLASSES · VANITY SETS · PLASTIC WALLETS · PENS AND ARTISTS' BRUSHES
ALUMINIUM KNITTING PINS · NYLON COMBS IN NEW & ATTRACTIVE COLOURS

The Barnet Rooster–Your Profits Booster

Barnet *Fine Combs and Fancy Goods*

Write for details to manufacturers :
E. R. HOLLOWAY LTD · WELWYN GARDEN CITY · HERTS · ENGLAND · Tel.: Welwyn Garden City 4444

Trufood announce a New National Advertising Campaign for

TRUFOOD CEREAL FOOD

When the new advertising campaign starts in April more mothers will be asking for Trufood Cereal Food. These extra Trufood Cereal sales will mean extra sales for you, the chemist, for Trufood Cereal Food is a 'chemists only' line.

To help you get your full share of the increased sales, send today for show material and pre-paid postcards which will entitle your customers to free samples.

TRUFOOD CEREAL FOOD has a protein content— including milk protein—of 21·4%

TRUFOOD

TRUFOOD CEREAL FOOD —like all Trufood products— is sold only by chemists

TRUFOOD LIMITED, GREEN BANK, LONDON, E.1 ROYAL 7905

TFT 3-419

Sales NOW - mean Sales TOMORROW!



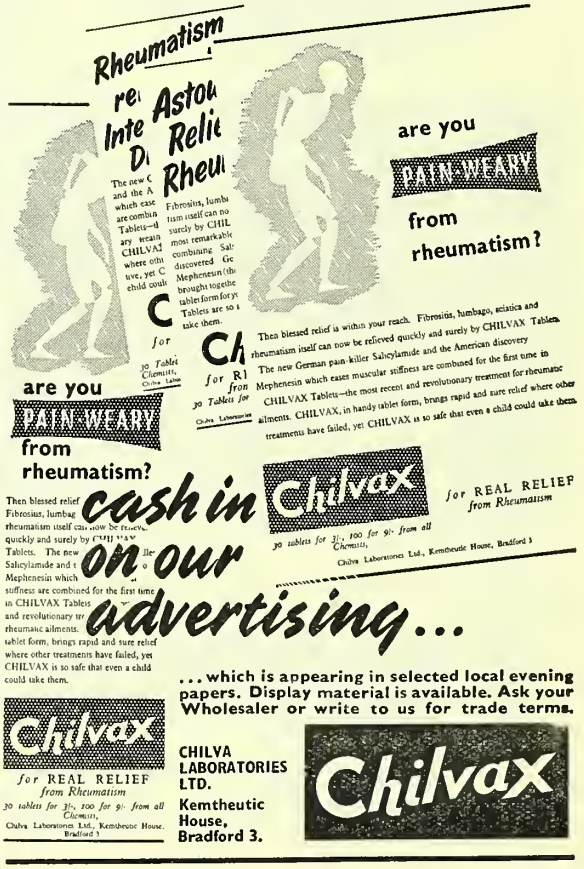
PADDI and PADDI-*pads* —

2 products with a 'plus' appeal. A wonderful improvement on the conventional 'nappy' that solves a big problem for the busy young mother. Sell her PADDI and ensure repeat sales of PADDI-*pads*. They're better for babies, less trouble and labour-saving for mother. Supported by attractive advertising in women's journals, these profit-making lines can mean big business for YOU! Paddi retails at 6/6. Paddi-*pads* in packets of ten 1/8d. Please write for details.

PADDI AND PADDI-*pads*

Another *Mene* Product

ROBINSON & SONS LTD · CHESTERFIELD & LONDON



Something like a bonus offer!

12 〈 LOREXANE AEROSOL INSECT SPRAYS FOR THE PRICE OF 〉 11

Take advantage of this generous bonus: Stock up now for the fly season

12 for the price of 11, plus our usual generous discount, makes this a most valuable offer to the chemist. A dozen 6 oz. 'Lorexane' Aerosols, during the period of the Bonus Offer, would mean an outlay of 49/11½d. with a return of 78/- and a profit of 28/0½d. or in other words

56%
PROFIT ON OUTLAY



'Lorexane' Aerosols contain Gamma B.H.C., the most deadly insecticide available. 'Lorexane' is at once powerful yet safe, certain death to flying insect pests, yet harmless to humans and animals.

PUBLICITY SUPPORT

Frequent advertisements will appear in the following national papers:— Country Life, Radio Times, Woman's Own, Homes and Gardens, House and Garden, Ideal Home and House Beautiful; also in Caterer and Hotel Keeper, Hotel Review.

SALES UP! PRICES DOWN!

These new prices will make 'Lorexane' Aerosols more popular than ever.

TRADE PRICE PER DOZ.		RETAIL PRICE EACH
44/-	4 oz.	5/3
54/6	6 oz.	6/6
88/-	12 oz.*	10/6

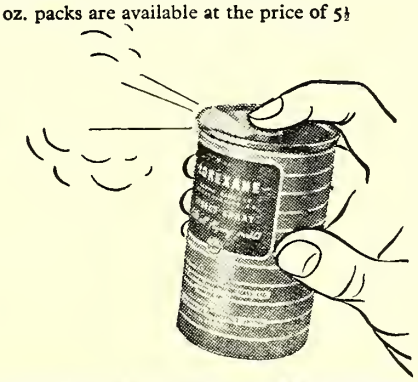
Order now for April/May delivery.

*6 × 12 oz. packs are available at the price of 5½

LOREXANE

AEROSOL INSECT SPRAY

contains Gamma B.H.C



IMPERIAL CHEMICAL (PHARMACEUTICALS) LTD., FULSHAW HALL, WILMSLOW, MANCHESTER

A subsidiary company of Imperial Chemical Industries Ltd. Ph.514

A

BIOPAR TABLETS

VITAMIN B_{12} AND INTRINSIC FACTOR

●

EFFECTIVE ORAL REPLACEMENT FOR INJECTABLE VITAMIN B_{12}

Bottles of 30, 60 and 500

PRICE REDUCED SUBSTANTIALLY FROM FEBRUARY 21st

Write for Literature to:

THE ARMOUR LABORATORIES
(ARMOUR & COMPANY LTD)

HAMPDEN PARK, EASTBOURNE, SUSSEX

Telephone: Hampden Park 740
Telegrams: "Armolab" Eastbourne

SANCTIONED ON
N.H.S. Prescriptions (Form E.C.10)

EPHAZONE tablets

The rational, symptomatic remedy for bronchial spasm in
ASTHMA & BRONCHITIS

Containing in each tablet:
Ephedrine ¼ grain - Theobromine ½ grain
Phenazone 1 grain, Calcium gluconate ¼ grain

This preparation is not advertised to the general public.

EPHAZONE LTD

59 BROOK ST. LONDON W1 TEL: MAYFAIR 5496

bickiepegs
LIMITED

regret that increased costs compel them to raise the retail prices of Bickiepegs from April 1st as follows:

9d. packets of Bickiepegs to 1/-
(Trade price 9/- per doz)

1/4 packets of Bickiepegs to 1/7
(Trade price 14/3 per doz)

Prices of other products will remain the same

Sole Distributors: **MAY, ROBERTS AND COMPANY, LIMITED**
47 Stamford Hill, London, N.16. (Stamford Hill 1260)

BICKIEPEGS LIMITED WELWYN GARDEN CITY HERTS

Dyanese FADELESS DYES

2½d STOCKING (except Black) ..	20/- gross
4d. COLD WATER, CURTAIN and Black Stocking Dyes ..	32/- gross

Order Dyes and Shade Cards from our Agents
Gt. Britain: **W. B. Cartwright Ltd., Rawdon, Leeds**
N. Ireland: **T. M. Mullan & Co., Ltd., 42 Victoria Street, Belfast.** *Eire:* **May Roberts (Ireland) Ltd., Grand Canal Quay, Dublin, C.6**

GALLIC ACID
PYROGALLIC ACID

(RESUBLIMED, PURE CRYSTAL AND TECHNICAL)

AND DERIVATIVES

WHOLESALE AND EXPORT ONLY

J. L. ROSE, LIMITED, ABBEY ROAD, BARKING, ESSEX

"WIDE AWAKE" PROFITS FOLLOW "Tired Eye" ADVERTISEMENTS

MURINE
PROVES BIG SUCCESS

You've probably seen this Murine advertisement in the National Daily or Sunday Press, and you'll be seeing a lot more this year! They represent one very good reason for the success of Murine since its introduction in this country in 1954.

But the main reason for Murine's success is its soothing action. Murine actually complements the antiseptic secretions of the eye itself. Just two drops of Murine in each eye are enough to wash away dust, dirt and other irritants.

The public will be constantly reminded through Murine advertisements that tired eyes can be relieved by a visit to the chemist. Make sure you have Murine in stock.





Each bottle of Murine holds 240 drops and retails at 3/10 (complete with dropper in a sealed envelope). Order now from your usual wholesaler!

MURINE THE WORLD'S LARGEST-SELLING EYE PREPARATION

Sole Distributors in the United Kingdom

A. J. WHITE LIMITED

COLDHARBOUR LANE · LONDON · S.E.5

QUESTIONS
(theirs)
AND
ANSWERS
(yours)

Q: What's this marvellous new auburn hair colouring I've heard about?

A: *It's called Camilatone Synthetic Henna Cream.*

Q: Why is it such a success?

A: *This synthesized Henna Cream gives a far more natural tone . . . is kinder to your hair and, most important—so much easier to use. Just rub it into your hair after a shampoo and then rinse.*

Q: How will I know how long to leave it?

A: *There is a time chart enclosed with each tube to show you how to get the exact depth of colour you want. The less time you leave it before rinsing—the lighter the effect.*

Q: Do I have to use it each time I wash my hair?

A: *No. The effect lasts through many shampoos.*

Q: Will it affect my permanent wave?

A: *Not at all. Besides it has a wonderful conditioning effect on the hair.*

CAMILATONE
SYNTHETIC
HENNA CREAM

3/6 A TUBE
Trade Price 18/8 a dozen plus 75% P.T.
Display outer and showcard supplied

CAMILATONE LTD., EDGWARE ROAD, LONDON, N.W.9

IN PRACTICE
IT WORKS

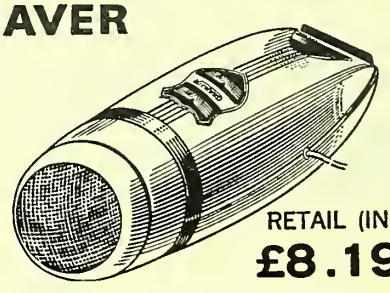
- **Bismuth Carbonate**
- **Frequent Small Meals**
- **Adequate Sedation**

This regime has been proved by clinical investigation to relieve symptoms and effect rapid healing, in cases of peptic ulcer. Bismuth carbonate in adequate dosage is unique in that it protects and soothes the gastric mucosa and at the same time effectively inactivates pepsin without unduly raising the pH.

Full illustrated literature and samples on request to

Bismuth Research Dept.
MINING & CHEMICAL PRODUCTS LTD.
86 STRAND, LONDON, W.C.2

? ARE *YOU* SELLING SWITZERLAND'S FINEST SHAVER ?

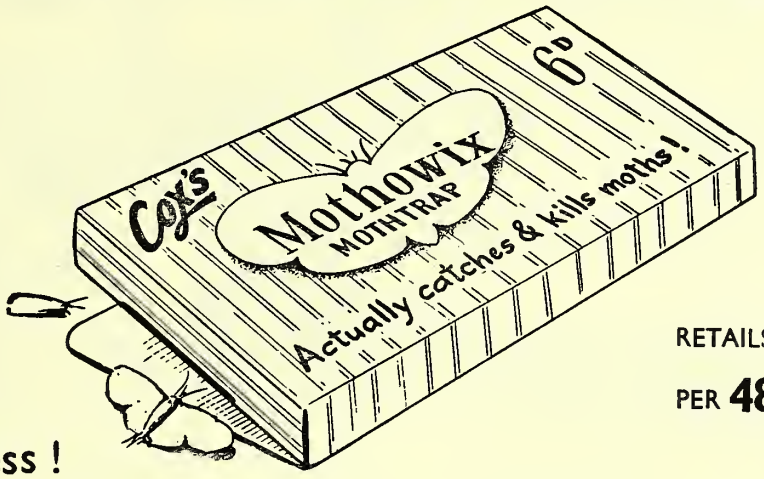


RETAIL (IN U.K.)
£8.19.0

RICHARD
SWISS HIGH PRECISION
ELECTRIC SHAVER

Through your usual wholesaler or direct from **B. H. RIES LTD.**
19-21 HATTON GARDEN, E.C.1

"MOTHOWIX" MOTHTRAP



RETAILS AT **6D**
PER **48/-** GROSS

★ Odourless!

★ Actually catches and kills moths!

order with

THE ORIGINAL

Cox's

D.D.T. FLYCARDS

Cox's 3d.	**D.D.T. FLYCARDS** (THE ORIGINAL) ...	**24/-** PER GROSS
Cox's 3d.	**D.D.T. CHIMPS**...	**24/-** ,, ,,
Cox's 4d.	**D.D.T. PARROTS**	**32/-** ,, ,,
Cox's 4d.	**D.D.T. ROSE BASKETS**	**32/-** ,, ,,
Cox's 6d.	**MOTHOWIX MOTHTRAPS**	**48/-** ,, ,,

LESS 2½% MONTHLY ACCOUNT

BONUS TERMS — 10% ON ORDERS FOR 3 GROSS

THIS OFFER APPLIES TO ORDERS FOR FLYCARDS AND MOTHOWIX
IN ANY ASSORTMENT

JAMES COX & CO., D.D.T. WORKS, STH. HARROW, MIDDLESEX. Telephone: BYRON 4326

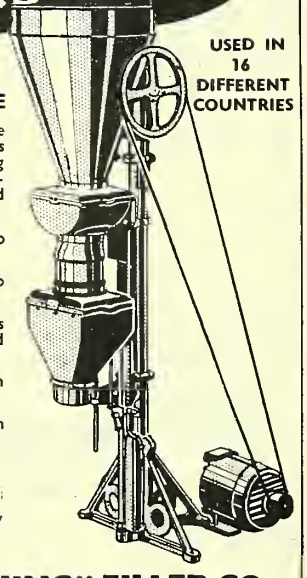
Now—
SATURDAY NIGHT
is
"What's my Line?"
NIGHT
ON RADIO LUXEMBOURG



Tune in to the **ASPRO** PROGRAMME
208m. (medium wave) 8.30p.m.
EVERY SATURDAY

LISTEN IN TO THIS TOP-LINE T.V. FEATURE

Many repeat orders prove the efficiency of JOHNSTON "Lightning" FILLERS



USED IN 16 DIFFERENT COUNTRIES

GIVE YEARS OF TROUBLE-FREE SERVICE

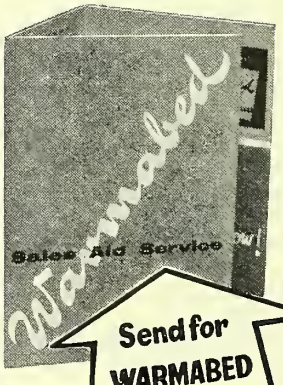
"Send another" . . . "We would like 6 more"—such letters from packers throughout the world are convincing proof of the popularity of these efficient, accurate and simply-operated Filling Machines.

★ One Model can fill from 1 dram to 7 lb.
★ One Model can fill from 2 lb. to 28 lb.
★ One Model can fill 48 ¼-lb. packets Tea or 50 1-lb. packets Sugar and Cereals per minute.
★ One Model can fill 14 tons Flour in 7-lb. packs per 8-hour day.
★ One Model can fill 25 tons Salt in 2-lb. packs per 8-hour day.

Pedal or Power operated
Electrical Agitation where required
Prices from £120 Quick Delivery
Hire-purchase terms on application

JOHNSTON "LIGHTNING" FILLER CO.
FALKNER STREET, LIVERPOOL 8
Telephone: ROYAL 1660 Telegrams: "QUICKFILL," LIVERPOOL

Why WARMABED
Electric Blankets are best sellers!



WIDELY recommended for their efficiency and reliability and carrying the Good Housekeeping Certificate, Warmabed Electric Blankets are no less in demand because they are of 100% pure wool in lovely pastel shades.

The attractive series of Sales Aids supplied on request to Stockists, and our national advertising ensure big sales.

Write for Catalogue and Trade Terms.

Send for WARMABED Sales Aids Brochure

MODERN ELECTRICAL INDUSTRIES LIMITED
KNOTTINGLEY, YORKS.

Tel.: Knottingley 51. Grams and Cables: "Warmabed, Knottingley"

These hard-selling units mean £ook: stop: demand



DISPLAY Amami Wave Set and CONDITIONER

and you multiply sales

That's good business sense indeed! Amami *sells* more heavily than any other Wave Set, by far. Amami *advertises* more heavily than any other Wave Set, by far. Sales are increasing month by month. The more you show Amami, the more you profit from Wave Set sales. Display material and full-colour showcards are available to back up the heavy advertising impact. Use them in your windows and on your counters and share in record Amami business.

LEFT: Cream plastic display stand holding eight bottles. Decorative, sales-stimulating.

RIGHT: Display outer in cream board, for six bottles to keep stock on the move. *Both available on request from address below.*

Amami Wave Set and CONDITIONER

the biggest selling Wave Set by far

COUNTY LABORATORIES LIMITED, Honeypot Lane, Stanmore, Middlesex. Telephone: WORdsworth 4321

WIDELY PRESCRIBED IN THE TREATMENT OF

PEPTIC ULCER

AS WELL AS MINOR GASTRIC DISORDERS

ROTER

TABLETS

In the more stubborn cases of gastric and duodenal ulcer, Roter Tablets have often proved effective when other, sometimes radical, measures have failed. They are also of great help in the treatment of post-operative relapse and recurrence.

Whilst their value is most apparent in these major complaints, Roter Tablets can be taken for all minor forms of indigestion, including gastritis. They contain no narcotics, have no side-effects, and do not disturb normal digestive processes.

PACKINGS

		Retail price including P.T
Trial size ...	... 40 tablets	... 7/2d.
Standard size	... 120 „	... 20/7d.
Full treatment size	640 „	... 103/-d.
Dispensing Packs	720 „	P.T. exempt

Stocked by all principal wholesale houses.

F.A.I.R. LABORATORIES LTD., 179 HEATH ROAD, TWICKENHAM, MIDDLESEX

Telephone: POPesgrove 2028

HOME TRADE JKL EXPORT

IPECAC

QUILLAYA BARK

CHERRY BARK

and all other Botanicals, Gums, Waxes, Essential Oils and Spices

JOHN KELLYS (LONDON) LTD.

24 OLD BROAD STREET, E.C.2

Telephone: LONdon Wall 6585 (4 lines)
Telegrams: "Ergotine, Stock, London"

NEW YORK · HAMBURG

A FURMAN of London, Hair Beauty Creation

Our 1955 advert. Programme is doubled MILLIONS MORE WOMEN will be Demanding YOU to supply.



This really fast selling NATIONALLY ADVERTISED product shows 75% profit on cost. Is packed in most attractive polythene self spray bottles in smart carton. Showcards, Window Streamers, and other advertising material is free on request.

From your usual wholesaler or direct.

Dept. CD.I. B. N. FURMAN (Productions) LTD.,
133, FONTHILL ROAD, LONDON, N.4.

PARENTROVITE

for the treatment of NEUROSES and PSYCHOSES

associated with: **Drugs** e.g. narcotics and barbiturates
Infections e.g. influenza and pneumonia
Alcohol

PARENTROVITE consists of injectable preparations of *the vitamin B complex and vitamin C*, designed especially to satisfy the needs created by the toxic effects of drugs and infective agents. The formulae, for intravenous and intramuscular use, have been determined in relation to interactions known to occur between these vitamins in intracellular metabolism. When the enzyme systems concerned in the oxidation of glucose are deranged or inhibited, as they are in certain toxic states, whether caused by virus infections, alcohol or barbiturates, the co-enzymes in the vitamin B group must be supplied in very high concentration to initiate recovery.

The immediate effect of treatment is the restoration of normal cerebral function:—

the return of consciousness after coma or delirium,
rational thinking after confusion,
a co-operative and calm outlook after resistance or depression.

This changed attitude must be maintained by repeated injections while the patient is being given other treatment suitable for the underlying condition, whether this is psychotic or somatic in origin.

High potency preparations are available for both intravenous and intramuscular use to detoxicate patients at the beginning of treatment, and lower potencies for subsequent maintenance.

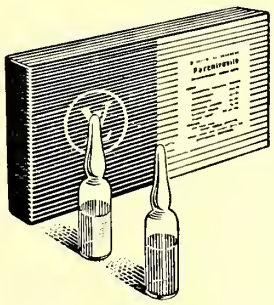
Some papers indicating the course of developments leading to the introduction of PARENTROVITE.

1944 J. Amer. med. Ass., *126*, 752. **1944** J. ment. Sci., *90*, 95. **1948** Amer. J. Psychiat., 105, 2, 107. **1948** J. nerv. ment. Dis., *110*, 1. **1950** Ann. intern. Med., *32*, 261. **1950** Lancet i, 287. **1951** Lancet ii, 1057. **1951** Brit. med. J., ii, 411. **1952** Amer. J. Psychiat., *108*, 888. **1953** Lancet i, 570. **1953** Med. World *79*, 579. **1954** Proc. Roy. Soc. Med., *47*, 215. **1954** J. Amer. med. Ass., *155*, 114. **1954** Brit. J. Addict., *51*, 29 & 39.

PACKS AND PRICES

	Professional	Net Price to Chemist*
High Potency	13/2	9/9
Maintenance	10/1½	7/6

All prices are per box of 3 pairs of ampoules.
**The basic cost to the N.H.S. is the same as the price to the Chemist.*



Ampoules are supplied in pairs of 5 c.c. for intravenous injection in acute conditions, and in smaller volumes for intramuscular injection. Boxes of 3 pairs.

VITAMINS LIMITED
(DEPT. AA4) UPPER MALL, LONDON, W.6

FURTHER INFORMATION AND SPECIAL LITERATURE ON REQUEST

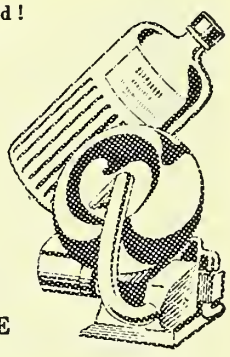


important message for all

PROPRIETARY MANUFACTURERS

If you manufacture proprietary lines, we think you ought to know that *all* your galenical requirements can be met from a single source. Yes, we hold stocks of an extensive range of these drugs—and all at highly competitive prices. We can offer, too, a complete processing service and will make up any line precisely to your own formulas and specifications. This way you can always be sure that output will keep pace with demand!

If you have a problem on proprietary manufacture, please let us know—we probably have the answer.



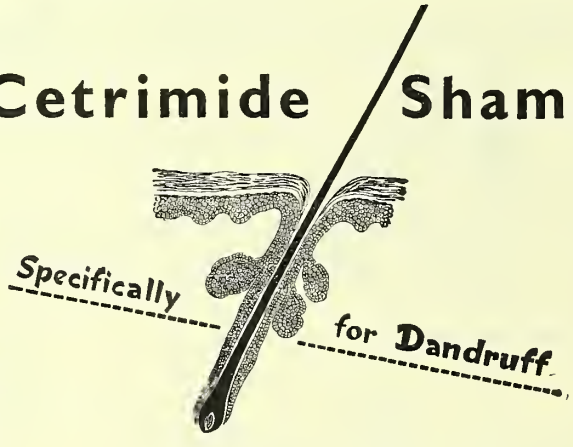
Write, 'phone or wire your requirements:

HARKER STAGG LIMITED
EMMOTT STREET, LONDON, E.1
TEL: STEPNEY GREEN 2022
GRAMS: GALENICALS, EASPHONE, LONDON

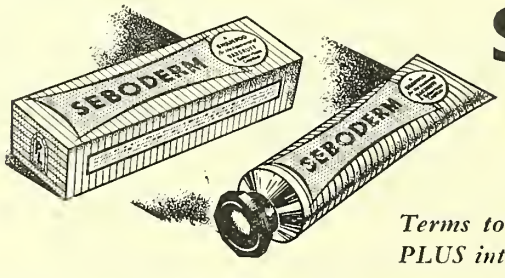
- **GALENICALS**
- **TABLETS**
- **COMPLETE PROCESSING SERVICE**

NEW! **Cetrimide Shampoo**

SEBODERM Cream Shampoo has been prepared specifically for Dandruff. It contains cetrimide B.P., the quaternary ammonium compound widely recognised as being most effective in the treatment of simple dandruff and the more serious seborrhoeic dermatitis. SEBODERM combines effective therapy with the pleasure and comfort of a really good shampoo, and leaves the hair soft, silky and clean.



Descriptive literature available on request.



SEBODERM

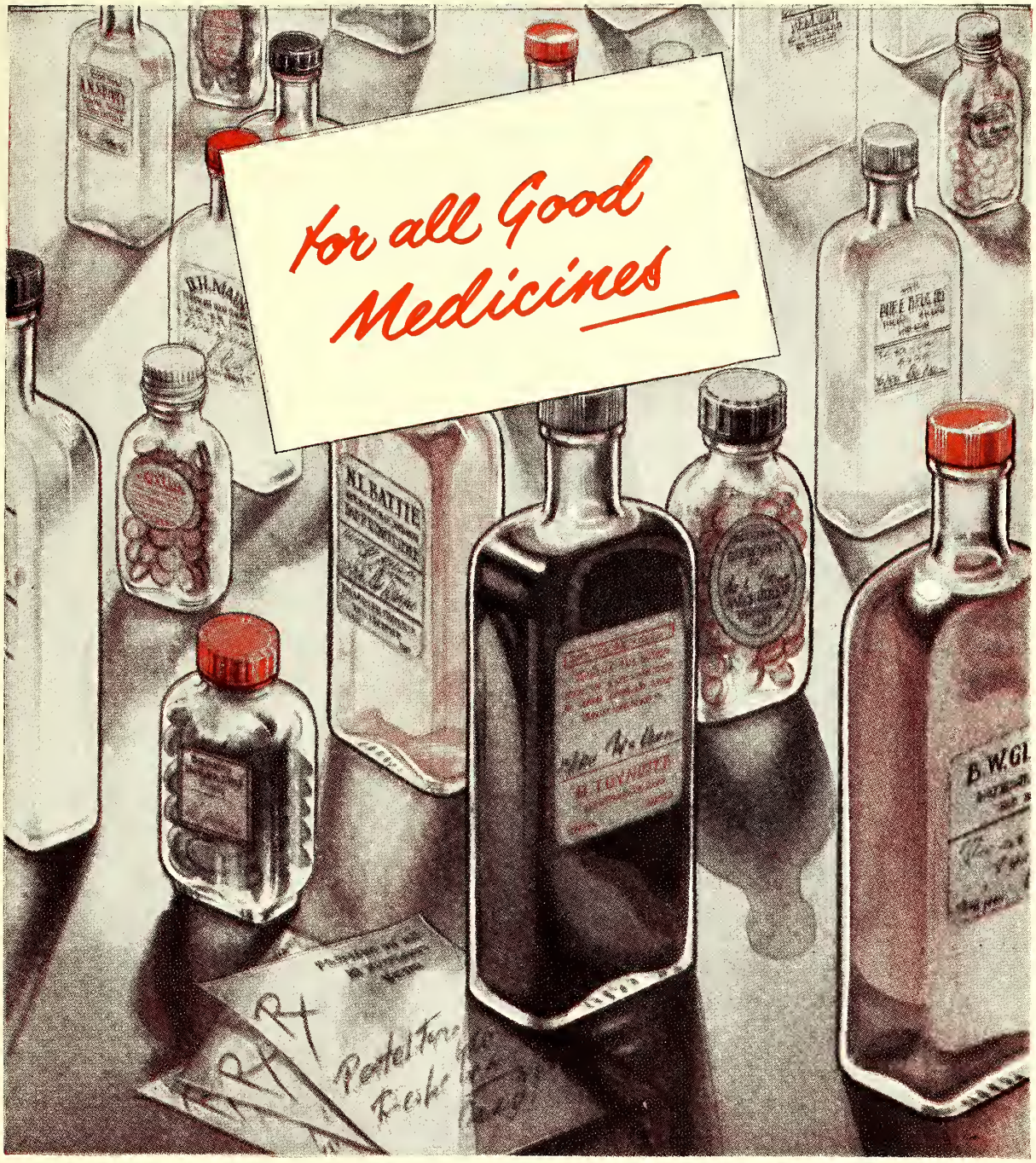
Cream Shampoo in $\frac{3}{4}$-oz. tubes.

RETAIL PRICE 2/4d.
per tube inc. P. Tax.

Terms to the Pharmacist: $33\frac{1}{3}\%$
PLUS introductory bonus of 1 free tube per dozen.

PRIORY LABORATORIES LTD., Pyramid Works, West Drayton, Middlesex.

PL TRADE MARK



USE GOOD BOTTLES

UNITED GLASS BOTTLE MANUFACTURERS LIMITED

8 LEICESTER STREET, LONDON, W.C.2

Telephone: GERRARD 8611 (18 Lines) *Telegrams:* UNGLABOMAN, LESQUARE, LONDON



WHITECROSS
SUNGLASS
SALES
BOXES

●

WHITECROSS
OPTICAL COMPANY
(LONDON) LTD.
55 WHITECROSS STREET
LONDON, E.C.1
Tel. MONarch 0114

TRUST ALL your takings to the *3-WAY PROTECTION of the* VIGILANT



2-TOTAL Model No. 132(7)2 For the Pharmaceutical Trade

(IMMEDIATE DELIVERY)

5 YEARS GUARANTEE ★ MADE IN DUNDEE

1 BOLD, white on black, wide angle INDICATION —reading left to right, front and rear.

2 AUTOMATIC, PERMANENT RECORD of all transactions: Last 9 items always visible.

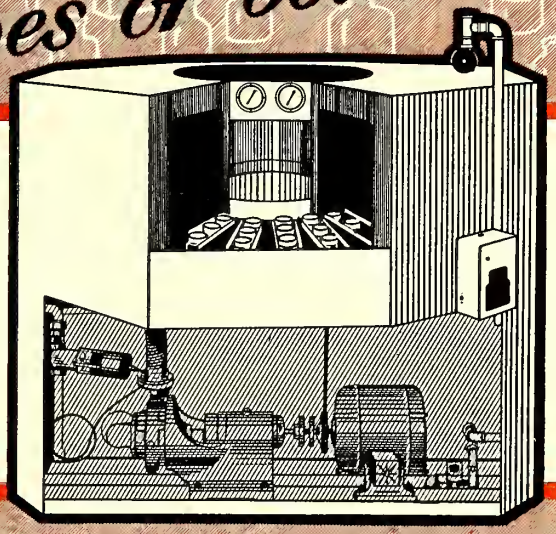
3 AUTOMATICALLY PRINTED CUSTOMERS PURCHASE CHECK

Designed to PROTECT & built to ENDURE

Life-long satisfaction is guaranteed to every user through National's unequalled SERVICE after SALES ORGANIZATION

THE NATIONAL CASH REGISTER COMPANY Ltd.
206-216 Marylebone Road, London, N.W.1, and all principal business centres

The "APEX" for cleaning all types of bottles!



Perfect hygiene and absolute cleanliness means everything in bottles. You're safe with "Apex". Simple, economical yet highly efficient, the "Apex" gives clear sparkling bottles from 25 doz. to 200 doz. per hour according to bottle size. Only one operator required.

Fullest details will be gladly sent.

R. POWLEY & SONS LTD. (Dept. 6/C), SUNDERLAND

Telephone: Sunderland 4846-7 *Telegrams: "Powley" Sunderland.*

The name that guarantees accuracy

- CLINICAL THERMOMETERS
- HOUSEHOLD THERMOMETERS
- INDUSTRIAL THERMOMETERS



G·H·ZEAL LTD

LOMBARD ROAD · MORDEN ROAD · LONDON · S·W·19

Telephone: LIBERTY 2283 4-5-6 and 4201
Cables: "Zealdom" London

He's out to sell

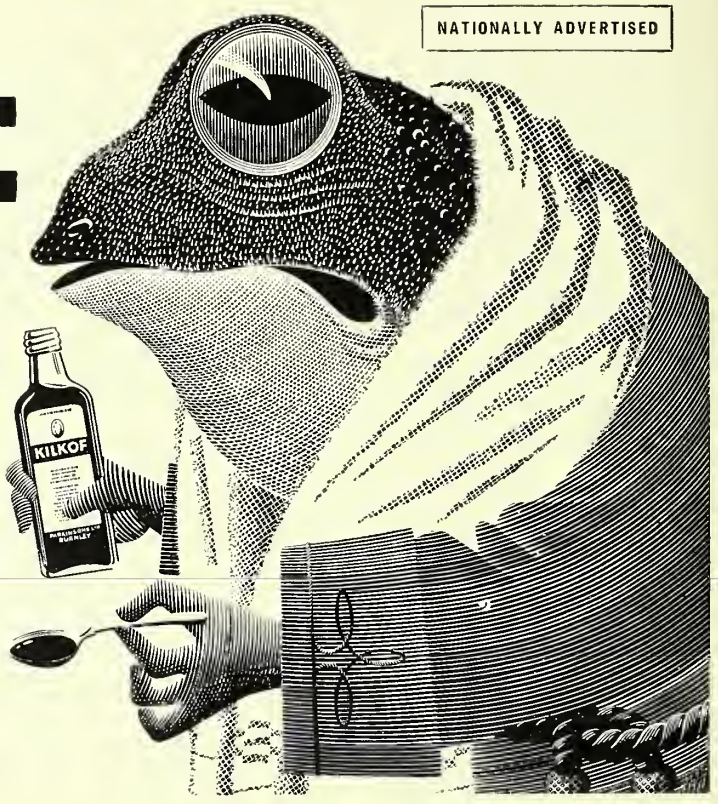
KILKOF

and

KILKOF KONES

—are YOU?

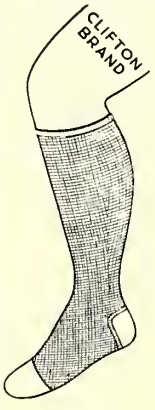
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PARKINSONS LTD. BURNLEY
Manufacturing Chemists

Charles Williams
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Makers of

Clifton Brand Elastic Hosiery

ONE WAY STRETCH
TWO WAY STRETCH

Lastex and Elastic Net

N.H.S. Tariff Prices

also

Surgical Belts, Trusses Suspensory Bandages, Appliances and Chemists' Sundries

CLIFTON WORKS
Stoney Street, Beeston, Notts.
Phone: 54492

The Best costs no more!

when ordering ZINC OXIDE insist on —

FELLING
ZINC OXIDE B.P.

AND GET THE
Highest Standard of Purity

WHOLESALERS ONLY SUPPLIED
ENGLISH MANUFACTURE
USED THROUGHOUT THE WORLD

Guaranteed free from lead and arsenic. Its manufacture is supervised throughout by qualified chemists. Each particle size will pass 240 mesh with less than 0.1% residue.

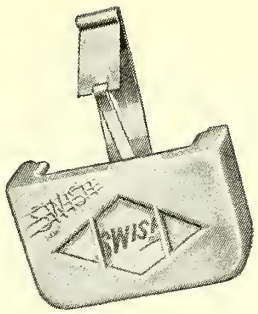
We supply most Wholesalers, but should you have difficulty please contact

H. LATTIMER 22 UPPER GROUND, BLACKFRIARS, LONDON S.E.1

Telephone: WATERLOO 5800

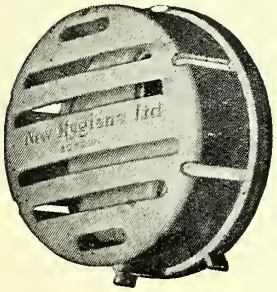
Manufactured by **THE FELLING ZINC OXIDE COMPANY**

The Big 3 in "New Hygiene"



" SWISH " !

Cleans, deodorises and disinfects the lavatory pan every time the pan is flushed. Stainless steel and plastic fitting prevents rust or discolouring. Complete unit retails at 2/6. Refills 9d.



" SCENTinel No. 3 "

Attractive modern MIKE container for chemical block that repels moth and vermin with fragrant freshness. Complete unit retails at 3/3. Refills 1/3.



" SCENTinel No. 4 "

The " Rosebud ". A lower priced unit in silver foil package, 3 in. square. Big sales everywhere. Death to moth and vermin, sweetness to the air. Complete unit retails at 1/3.

These " NEW HYGIENE " products are the greatest advance in Home Hygiene in half a century. The ideal protection for Clothes, Furs, Health. The chemical block refills last 6 to 8 weeks.

CASH IN THROUGH OUR SPECIAL INTRODUCTORY OFFER NOW!

IDEAL HOME EXHIBITION
1¼ million people will see
NEW HYGIENE PRODUCTS
all through month of March.

Special Introductory Offer!

30% AND 7½% DISCOUNT ON THIS EASY-TO-SELL ASSORTMENT

" SWISH " 1 doz. complete units plus 2 doz. refills.
" SCENTinel No. 3 " 1 doz. " Mikes " complete, plus 2 doz. refills.
" SCENTinel No. 4 " 2 doz. " Rosebuds " complete.

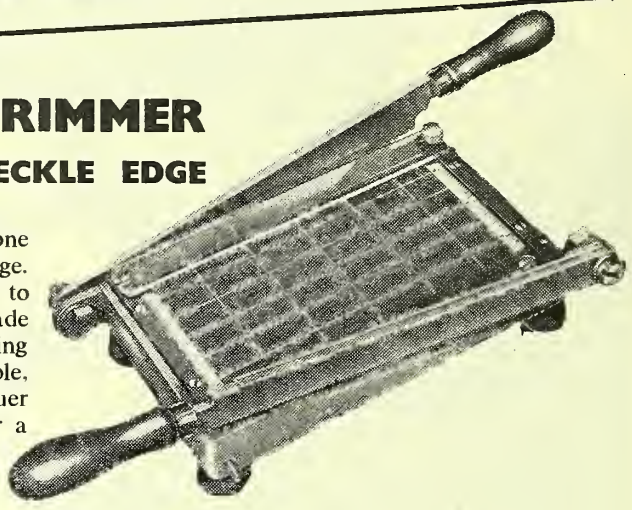
MANUFACTURED BY

NEW HYGIENE
LIMITED
266-268 HOLLOWAY ROAD
LONDON N.7
TEL: NORth 5041-2-3 CABLES: "AIROGENA-HOLWAY"

TWO LINES that *WILL* sell . . quickly

A PHOTOPRINT TRIMMER

WITH STRAIGHT AND DECKLE EDGE



This *unique* IDEAL model has two knives—one with a straight edge, the other with a deckle edge. They both give you 7″ cuts, clean and accurate to 1/16″. The knives, which are made of high grade steel, fit flush to the cutting table, thus avoiding any obstruction by the idle knife. The simple, robust construction and the attractive metal lacquer finish make the IDEAL Dual Purpose Trimmer a gem of a model!

IDEAL Dual Purpose Trimmer 39/10 RETAIL

The amazing
TEX WATER WIZARD

Converts tap water instantly into pure distilled water



The Magnatex WATER WIZARD does away with the need for bulky, breakable bottles of distilled water. Simply fill the WATER WIZARD with ordinary tap water, allow to stand for a few minutes—then when you squeeze the pliable bottle a stream of pure distilled water will squirt through a nylon filter direct from the nozzle. The WATER WIZARD process is based upon the scientifically proved principle of ion exchange.

TWO SIZES
W.W.8 (8 oz.) 4/6
W.W.16 (16 oz.) 6/6
(W.W.1 re-charge unit 2/-; two needed for the larger size.)

Makes from 1 to 20 gallons of pure distilled water depending upon the hardness of the local water. The WATER WIZARD changes from a golden colour to purple when a re-charge is necessary.

Ideal for Process Photography, Sterilizers, Batteries, etc., as well as many household uses.

Distributed by:

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JONATHAN FALLOWFIELD LTD.

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GAYELORD HAUSER

WONDER FOODS

Gayelord Hauser

A widespread advertising campaign is now telling the whole story of Gayelord Hauser's amazing 'look younger, live longer' regime—and selling the special 'wonder foods' he recommends. Look out for advertisements throughout the spring in leading National papers and magazines.

Already there's a great deal of interest in Gayelord Hauser's methods—to judge from the enormous number of enquiries we've been getting. Now they'll be coming straight to you. So be ready . . . with a good supply of the wonder foods . . . with showcards and crowners for window or counter . . . and with a stock of the free booklet, "Be Happier, Be Healthier" which everybody will be asking for.

Dried Skim Milk	4s. 10d.
Brewers' Yeast Powder	6s. 6d.
Brewers' Yeast Tablets 250	5s. 6d.
Wheat Germ	4s. 6d.
Black Molasses	4s. 6d.
Vegisalt	2s. 0d.

A page in Vogue →

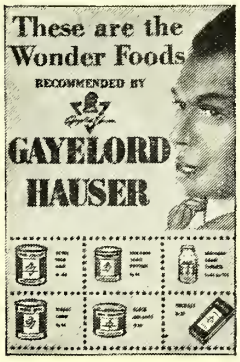
and advertisements in all these papers:

Daily Telegraph
Sunday Times
Vogue
Woman and Beauty
Reader's Digest
Lady
Woman's Illustrated
Observer
English Speaking World
Woman's Journal
Queen
Country Life
Tatler

To help you sell the wonder foods, we have prepared the gay coloured showcard and crowner (right) to add a final sales touch to the handsomely designed tins.

All stocks and display material are obtainable from:
W. B. CARTWRIGHT LTD., RAWDON, LEEDS
Telephone: Rawdon 713-4-5-6







New antibiotic plant at Sandwich

Terramycin Prices Reduced

Built during the past year the new plant of Pfizer Ltd. at Sandwich in Kent is now producing Terramycin and other antibiotics on a large scale. The immediate effect of this British Manufacture on Terramycin prices is given below. These greatly reduced prices take effect from March 14th 1955.

Pfizer Terramycin* BRAND OF OXYTETRACYCLINE

BASIC N.H.S. PRICES

	OLD	NEW
Oral Suspension	16s. 10d.	12s. 0d.
Paediatric Drops	10s. 0d.	8s. 2d.
Tablets		
1,000 × 250 mg.	£99. 6. 8d.	£93. 9. 2d.
100 × 250 mg.	£10. 5. 8d.	£9. 13. 6d.
16 × 250 mg.	£1. 14. 4d.	£1. 12. 2d.
100 × 100 mg.	£4. 12. 8d.	£4. 9. 4d.
25 × 100 mg.	£1. 4. 2d.	£1. 3. 8d.
100 × 50 mg.	£2. 8. 10d.	£2. 5. 0d.
25 × 50 mg.	12. 8d.	12. 0d.
Topical Ointment 1 oz.	9. 9d.	9. 2d.
Ophthalmic Ointment	1. 6d.	1. 4d.
Soluble Tablets	13. 2d.	11. 8d.

Pfizer **THE WORLD'S LARGEST PRODUCER OF ANTIBIOTICS**

PFIZER LTD · FOLKESTONE · KENT

** Trade Mark-Chas. Pfizer & Co. Inc.*

The CHEMIST AND DRUGGIST
CLASSIFIED ADVERTISEMENTS
Supplement
28 ESSEX STREET, STRAND, LONDON, W.C.2

ORRIDGE & COMPANY 184 STRAND, W.C.2
Tel.: TEMple Bar 9212/3 & 6340
CHEMIST BUSINESS TRANSFER AGENTS AND VALUERS WHOLESALE AND RETAIL
BRANCHES: BIRMINGHAM · SOUTHAMPTON · LIVERPOOL · SHEFFIELD · CARDIFF
Irish Representative: Mr. J. A. Bassett, Ph.C., 57 Great Victoria Street, Belfast, Northern Ireland. Tel: Belfast 27078

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17/6 for 36 words (min.) then 4d. per word. Box 2/-

FOR SALE (owing to death of owner). Old-established drug store in Sheffield. Well stocked, suit chemist. For full particulars apply Box C 2283.

PREMISES TO LET

OPENING FOR CHEMIST. Modern shop and house on new, well-developed estate, at Whitby, Ellesmere Port, Cheshire. Rapidly growing area. Melville Curlender, Estate and Land Agent, Inner Temple, Dale Street, Liverpool, 2. C 8179

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17/6 for 36 words (min.) then 4d. per word. Box 2/-

BLACKBURN. Old-established pharmacy for sale. Large premises, main road (ample room for living) on lease or sale. Scope for improvement. Consider manager with view to purchase. Enquiries: F. Law, Accountant, 16 Richmond Terrace, Blackburn. C 2254

HERBALIST, DRUG STORE, CHIROPODY, Devon market town, adjoining town's "Harley Street." Great scope dispensing, sole agency leading lines. Shop and house on lease at £78 p.a. Ingoing £850. Daniel Maher & Co., Business Agents, Exeter. C 8185

NORTHERN IRELAND. Established pharmacy, corner position, in good provincial town in County Down. For sale as a going concern. Leased premises, reasonable rent. Stock at valuation. Box C 2247.

APPOINTMENTS

18/- per half-inch (min.) and pro rata. Box 2/-

BOSTON COMBINED HOSPITAL (319 Beds)
Pharmacist

required. Modern department. Nationally negotiated conditions and salary, at present £450 x £25 (5) to £575. Locum welcomed for interim period, salary £14 14s. per week.
Apply, stating age, qualifications, experience (if any) and names of two referees, to the Hospital Secretary, Boston General Hospital, Boston, Lincs C 8156

CHELTENHAM GROUP HOSPITAL MANAGEMENT COMMITTEE
Senior Pharmacist

Applications are invited for the post of Senior Pharmacist at the Cheltenham General, Eye and Children's Hospital. The salary and conditions of service will be in accordance with the Whitley Council decisions (£525 x £25 to £625 per annum) and subject to the National Health Service (Superannuation) Regulations.
This is a newly created post and it is intended that dispensing services shall be provided for the in-patients at four other units in the Group. Applications stating age and experience, together with the names of three referees should be sent immediately to the Group Secretary, Cheltenham General, Eye and Children's Hospital, Sandford Road, Cheltenham. C 8154

KING EDWARD VII HOSPITAL, WINDSOR
Assistant in Dispensing

required. Whitley Council salary. Applications stating age, experience, qualifications and names of two references to Hospital Secretary. C 8151

LOCUM TENENS PHARMACIST (M.P.S.)

required, 16 gns. per week. Post vacant March 14-26 (1st week New End Hospital, Hampstead, N.W.3, then Whittington Hospital, N.19). Apply Secretary, 46 Cholmeley Park, N.6. (Archway 3070, Ext. 8). C 8198

MID-KENT HOSPITAL MANAGEMENT COMMITTEE
Chief Pharmacist

Appointment of Chief Pharmacist. Applications are invited for the post of Chief Pharmacist at the West Kent General Hospital, Maidstone, duties will include general supervision (occasional visits only) of pharmaceutical services at Lenham Sanatorium and the Maidstone Chest Clinic. Salary at present £680 rising by increments of £25 to £780 a year in category III, in accordance with the recommendations of the Pharmaceutical Whitley Council. Post vacant mid-April. Applications stating age, qualifications and details of experience, together with the names and addresses of two referees, to be forwarded to the Group Secretary, Mid-Kent Hospital Management Committee, 103 Tonbridge Road, Maidstone. C 8192

NAPSBURY MENTAL HOSPITAL, Nr. ST. ALBANS (Over 2,000 Beds)
Dispensing Assistant

required. The Hospital is pleasantly situated and is only 18 miles from London. There are two other Dispensers in the Department. Salary according to Whitley Council scale, age 20, £240 p.a., 21, £275 p.a., 22 or over, £335, rising to £435 p.a. Preference will be given to holders of the Certificate of the Society of Apothecaries of London, or equivalent, for which an additional payment of £15 per annum is payable. Single accommodation can be provided at a reasonable charge. Written applications with full details of age, experience, qualifications, etc., with names and addresses of two persons to whom reference may be made, to be sent to the Group Secretary. C 8199

PRESTON AND CHORLEY HOSPITAL MANAGEMENT COMMITTEE
Pharmacist

Applications are invited from registered PHARMACISTS for this appointment at the CHORLEY AND DISTRICT HOSPITAL. Salary £450 x £25—£575. Higher qualification allowance of £25 payable where applicable. Whitley Council conditions.
Applications in writing, with names of two referees, to be sent to the Group Secretary, Royal Infirmary, Preston, as soon as possible. C 8188

ST. GEORGE'S HOSPITAL, HYDE PARK CORNER, LONDON, S.W.1
Pharmacist

required at above teaching hospital. Salary in accordance with Whitley Council Scale. Applications in writing to: Chief Pharmacist. C 8204

MAUDSLEY HOSPITAL, DENMARK HILL, S.E.5
Chief Pharmacist

required at the Maudsley Hospital, Denmark Hill, S.E.5, from June 1, 1955. The hospital is a psychiatric teaching hospital associated with the Institute of Psychiatry in the University of London, and the post is graded in Category III for which the salary, at present, is £710 a year rising by annual increments of £25 a year to the maximum of £810 a year, including London Weighting in each case. For form of application, returnable not later than March 31, 1955, apply to K. J. Johnson, House Governor and Secretary, Maudsley Hospital, Denmark Hill, S.E.5. C 8193

NOTTINGHAMSHIRE No. 1 HOSPITAL MANAGEMENT COMMITTEE
Pharmacist or Locum Pharmacist

required for Highbury and Heathfield Hospitals. To commence as soon as possible. Salary in accordance with Whitley Council Scale. Applications, stating age, qualifications and experience, with names of two referees, to be sent to the Group Secretary, General Hospital, Nottingham. C 8099

ST. LUKE'S HOSPITAL, BRADFORD (953 Beds)
Deputy Chief Pharmacist

Applications are invited for the post of Deputy Chief Pharmacist (female), General and Maternity Hospitals. Salary Cat. V, £625 to £725 p.a. Applications stating age, particulars of training, qualifications and experience with the names of two referees to the Secretary, Royal Infirmary, Bradford. C 8149

STOCKPORT AND BUXTON HOSPITAL MANAGEMENT COMMITTEE, STOCKPORT INFIRMARY, STOCKPORT
Senior Pharmacist

Applications are invited from suitably qualified candidates for the above post which will appeal especially to pharmacists interested in the preparation of sterile products
Salary scale £525 x £25 to £625 per annum, plus £25 per annum if holding a higher qualification.
The post will fall vacant in March, 1955. Applications with full particulars, together with copies of two testimonials or names of referees, to the Group Secretary, 59B Shaw Heath, Stockport. C 8178

ST. LUKE'S HOSPITAL, BRADFORD (953 Beds)
Pharmacist

(female) required. General and Maternity Hospital Unit. (Category V.) Opportunity for specialisation. Whitley Council salary and conditions. Apply Hospital Secretary. C 8150

ST. PETER'S HOSPITAL, CHERTSEY, SURREY (404 beds)
Pharmacist

required. Salary and conditions of service in accordance with Whitley Scales.
Applications stating age and experience with the names of two referees to the Hospital Secretary. C 8135

'UNISEC' *from the Single Unit to the Complete Pharmacy*
WRITE FOR YOUR COPY OF THE STANDARD REFERENCE OF PHARMACY FITTING
MYERS of OLD ST.
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The Complete Pharmacy Fitters
Shopfronts and Interiors
3 RAVEY ST., BISHOPSGATE, LONDON, E.C.2.

PHARMACEUTICAL PRODUCT DEVELOPMENT

Important and expanding company manufacturing ethical medical products requires a pharmacist or chemist who will be responsible for development of new pharmaceutical products. The successful applicant will have previous experience in this work and the knowledge and vision to pursue a vigorous new product development programme. The position, which is pensionable, holds very good prospects for the right man. Applications in confidence, giving details of previous experience and approximate salary required, to Box C 8195.

Appointments—Continued

ST. BERNARD'S HOSPITAL FOR NERVOUS AND MENTAL DISORDERS, SOUTHALL, MIDDLESEX

Assistant in Dispensing

required. Must have had commercial or hospital experience. Salary, aged 21: £295 per annum; aged 22 or over: £355 per annnum (inc. London Weighting), rising to £465 per annum, plus £15 per annum for approved certificates. Applications, with full details of age, experience, and names of two referees, to the Secretary. C 8180

THE UNITED BIRMINGHAM HOSPITALS, THE QUEEN ELIZABETH HOSPITAL, EDGBASTON, BIRMINGHAM, 15

Pharmacist

Applications are invited from Pharmacists for a resident post providing a unique introduction to Hospital Pharmacy. Encouragement is given to useful research. Salary in accordance with Whitley Council scales, less a deduction of £120 per annum for full board residence. Applications giving names of two referees, to the Chief Pharmacist. C 8161

WALSALL HOSPITAL MANAGEMENT COMMITTEE

Assistant in Dispensing

(Apothecary Hall Certificate) required for dispensing duties within the Walsall Group of Hospitals, based on the Manor Hospital, Walsall.

Salary in accordance with Whitley Council scales. Applications to the Group Secretary, General Hospital, Walsall, Staffs. C 8174

WANSTEAD HOSPITAL, HERMON HILL, E.11

Locum Pharmacist

required for any three consecutive weeks between June 1 and September 30. 15 guineas per week.

Applications with copy testimonials to Secretary, Forest Group H.M.C., Langthorne Road, E.11. C 8187

SITUATIONS OPEN

8/6 for 36 words (min.) then 3d. per word. Box 2/-

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

RETAIL (HOME)

ASSISTANT PHARMACIST, whole or part-time, required for family business in S.W. London. Duties mainly dispensing, with counter work when necessary. Apply with full particulars to Box C 2234.

BALHAM, S.W.12. Assistant pharmacist, male or female, required for permanent position in busy family dispensing business. Well experienced, active and able to take charge when necessary. Apply in writing, with usual particulars, to W. J. Boyes, Ltd., 61 Balham Hill. C 2233

DONCASTER CO-OPERATIVE CHEMISTS, LTD., require the services of Pharmacists (male or female) as branch managers. Living accommodation with one post. Minimum rate £780 per annum, 44-hour week. Applications and usual particulars to Superintendent Chemist, St. Sepulchre Gate, Doncaster. C 199

EDGWARE. Unqualified dispensing assistant required for good-class pharmacy. Apply with all particulars to John Harley, Ltd., 21 North Parade, Mollison Way, Edgware. C 2244

ILFORD. Excellent opportunity for energetic pharmacist to manage busy branch in pleasant area. Well-fitted shop. Adequate assistance. Up-to-date dispensary. Progressive salary with monthly bonus and rota duty payments. Modern flat available over branch. Permanency. Apply with full details stating when available for interview to Box C 2259.

LADY ASSISTANT with some experience required for easy counter work. Apply, Grays Inn Pharmacy, 310 Gray's Inn Road, W.C.1. Tel.: Terminus 3949. C 2257

LONDON. Exceptional opportunity for unqualified assistant, first-class photographic experience essential. Unfurnished house accommodation available if required. Apply, Mr. Ross, at C. Coutts Michie, Ltd., Chemists, 175 Kentish Town Road, N.W.1. Gul. 1650. C 2267

NORTH-EAST COAST TOWN. Pharmacist required to manage modern branch pharmacy with good dispensing practice, adequate supporting staff. Living accommodation provided at moderate rental. Permanency. Present salary £700 per annum plus bonus and rota fees. Superannuation scheme. Prospects of advancement exceptionally good. Applications and usual particulars to Box C 2250.

NORTH LONDON SUBURB. Pharmacist required to manage spacious, well-fitted branch with substantial counter trade. Good opportunity for ambitious man to earn top salary together with monthly bonus and rota duty payments. Permanency with superannuation benefits, etc. Apply with full details stating when available for interview to Box C 2260.

PHARMACIST required for the position of Branch Manager, male or female. Applications in writing stating age, experience, and wage required, together with copies of recent testimonials to the General Manager, Heckmondwike & District Co-operative Society, Ltd., 3 Oak Street (P.O. Box No. 16), Heckmondwike, (Suitable house available.) Endorse envelope "Chemist" in the top left-hand corner. C 2249

NOTTING HILL GATE (near). Applications are invited from experienced pharmacists for the position of Manager, with full responsibilities; must be accustomed to the working-class type of business; the post carries with it a very good salary, plus the free use of an attractive four-roomed flat. All replies will be treated in strict confidence. Please write initially stating brief details of career to date, to Box C 8168.

TWICKENHAM. Pharmacist required to take full charge of small but attractive pharmacy in very pleasant riverside area. Good living accommodation. Superannuation scheme. Please give all details of age, previous experience, and approximate salary required to Managing Director, Arnold M. Gee, Ltd., 12 High Street, Colliers Wood, S.W.19. C 2261

PHARMACIST REQUIRED by elderly proprietor who offers unique opportunity for acquiring an interest in busy family dispensing business on Kent coast. Should have good all-round experience and able to take charge. Salary £800. Full particulars, Box C 2282.

STOKE-ON-TRENT. Browns Chemists (S-o-T), Ltd., require a branch manager. Good salary. Permanency. Please state if living accommodation is required. Details on application to Mr. R. E. Ridley, c/o Browns Chemists (S-o-T), Ltd., 48 Piccadilly, Hanley. Phone Stoke-on-Trent 22506. C 2232

PART-TIME COUNTER ASSISTANT (male or female) required for busy pharmacy; 12 to 3, 4- or 5-days weekly; excellent working conditions; no Saturdays. Salary according to experience. Existing staff of four. W. B. Hubble, 79 Kingsway, W.C.2. Chancery 3185. C 8200

TEDDINGTON. Excellent opportunity for pharmacist to manage family-type business in pleasant riverside district. Permanency with superannuation benefits. Good salary and commission. Nicely fitted shop with adequate supporting staff. Apply with full details stating when available for interview to Box C 2258.

VACANCY occurs for pharmacist lady or gentleman. Duties mainly dispensing with occasional branch relief management. Usual holidays plus one day free each month. Assistance given in obtaining accommodation. Rota payment duties extra. Will consider five-day week. Reply, stating experience and salary required to Box C 2281.

RETAIL (OVERSEAS)

QUALIFIED CHEMIST (male or female), age 25 to 30 required for retail pharmacy, Salisbury, Southern Rhodesia, passage paid. Three-year contract. Salary first year £80, second year £90 and third year £100 per month. Apply stating apprenticeship served and experience. Interview can be arranged in England. Box C 2275.

WHOLESALE

A WELL-KNOWN ethical pharmaceutical house invite applications for the position of medical representative in the Glasgow area. The territory available is an established one. Previous experience is not essential as training is given. Candidates should possess a sound pharmaceutical background, reside on and know the territory well. The position is a progressive one and remuneration is by way of salary, commission and expenses. Applications with full details will be treated with strictest confidence. Box C 8157.

AN EXPERIENCED REPRESENTATIVE required for Leicestershire, Northamptonshire and Bedfordshire by a well-known company selling nationally to chemists and good grocers products supported by national advertising. Substantial basic salary, bonus, exceptional pension, life insurance, and dependants benefit scheme. Car allowance. Full details to Box C 8175.

BEATSON, CLARK & CO., LTD., glass bottle manufacturers, Rotherham, require traveller to visit retail and wholesale chemists in the Midland Counties. Reply, in writing, giving full details as to age, experience, etc., to Sales Director. C 8201

CHEMIST REQUIRED for research and formulation of new products. This position calls for ideas and initiative and the successful applicant will be given a very free hand. Good salary and prospects offered to man of the right calibre. Write Box C 8191.

Situations Open—Continued

ANALYTICAL CHEMIST for factory making pharmaceuticals and foods, covering complete analysis of incoming and processed products, and research into improving existing lines. Write stating experience, degree honours, age and salary required. Burdall's, Ltd., Hillsborough Works, Sheffield, 6. C 2274

CIBA LABORATORIES, LIMITED
Production Department

Applications are invited from pharmacists interested in the manufacture, filling and packaging of ethical products in the Horsham factory. Experience of this type of work and also of staff control is desirable but not essential. Excellent working conditions, five-day week, canteen, staff pension fund. Age not exceeding 30. Some assistance in housing will be given if necessary. Write giving experience and personal particulars to the Works Manager, CIBA Laboratories, Ltd., Horsham, Sussex, and mark envelope "Pharmacist." C 8128

COPYWRITERS, chemical research workers, marketing executives, and medical representatives required. Wright Atkinson, Ltd., employment specialists, have vacancies on their books for the above posts with a number of reputable companies. The qualifications of M.P.S., Ph.C. or A.R.I.C., are desirable in most instances, but may not be essential in some. Applications should be made in the first place, in strictest confidence, to Wright Atkinson, Ltd., 70 Queen Victoria Street, London, E.C.4. (City 2176.) C 8202

EXPERIENCED TABLET MAKER required, conversant with all types of machines. West Middlesex area. Five-day week, canteen facilities, pension scheme. Apply in first instance with full particulars of age and experience to Box C 2245.

FOREMAN PACKER/STOREMAN required by pharmaceutical house. Previous experience desirable. Box C 8196.

IMMEDIATE OPPORTUNITIES for trainee salesmen in the chemist field dealing with pharmaceutical products. Initially a sound training in our business will be given lasting three months in London, thence field experience to qualify for vacant appointments in the British Isles. Commensurate salary to start then territory salary, commission and expenses with car provided when trained. Applicants should have selling experience to chemists or similar and preferably single, not under 25. Write full details to H.S.M., Box C 8126.

IMPERIAL CHEMICAL INDUSTRIES, LTD., seeking to increase its sales force of medical representatives, invites applications from men with a sound medical or pharmaceutical background between 25 and 35 years of age, for territories in the Centre, North and North-east of England and the Home Counties. Successful candidates will receive an initial period of training and there will be additional training for young applicants who lack experience of medical representative work. Apply in writing to the Staff Manager, Imperial Chemical (Pharmaceuticals), Ltd., Fulshaw Hall, Wilmslow, Manchester. C 8170

KLEENEX TISSUE HANDKERCHIEFS. Applications are invited from sales representatives, not over 40 years of age, possessing good personality, above average ability and enthusiasm. The territories in which immediate appointments will be made are:—(1) East London, and Essex. (2) Bucks, Berks, Beds and Northants. (3) East Midlands. Applicants should be car owners and reside within the territory. Connection with retail chemists and co-ops an advantage. All positions carry a generous salary, together with car allowance and other out of pocket expenses. Apply in confidence giving full details of age and experience to Sales Manager, Cellucotton Products, Limited, Carkers Lane, Highgate Road, London, N.W.5. C 8165

LONDON. Two first-class men required either salaried or on straight commission to sell extensively nationally advertised product. Only top class men with well-established chemists' connection considered. All details in strictest confidence to Sales Manager, Andomia Products, Ltd., Grant Street, Bradford, P.O. Box 242. C 8181

MEDICAL REPRESENTATIVE. Owing to expansion, a well-known ethical house wish to appoint a first-class man to take over their established connection in South Yorkshire. Previous experience in this field of work is not essential but candidates must have a good technical background. The position is pensionable and remuneration is by way of salary, commission and expenses. Residence in or near Sheffield is desirable. Write in confidence giving full details of previous experience, etc., to Box C 8183.

MEDICAL REPRESENTATIVE. Established ethical house requires a representative (car owner) to contact doctors, hospitals and chemists in East London and Essex. Write, stating experience, age, when available, salary required, etc., to Box C 8203.

MEDICAL REPRESENTATIVE required immediately by Lederle Laboratories for Glasgow area. Applicants should be men of striking personality and initiative, should be 25–35 and have a pharmaceutical qualification or experience with an ethical house or detail work among doctors and hospitals. Congenial, well-paid post backed by outstanding products and first-class promotional material. Liberal expenses, company car supplied. Fullest details in writing to Sales Manager, Lederle Laboratories Division, Cyanamid Products, Ltd., Bush House, London, W.C.2. C 8189

PARKE, DAVIS & CO., LTD., require a young pharmacist for an appointment in their foreign sales department. Knowledge of one or more languages an advantage for this interesting and progressive position. Five-day week. Pension scheme. Apply in first instance to the Personnel Manager, Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex. C 8176

PARKE, DAVIS & CO., LTD., invite applications from Pharmacists for the post of Representative in South-west Scotland. Applicants, Scottish nationality preferred, should be under 35. Good pension scheme and company car provided. Previous representative experience unnecessary as initial training will be given at Hounslow. Please address letters of application to Sales Manager, Parke, Davis & Co., Ltd., Carfin Industrial Estate, Carfin, Motherwell, Scotland. C 8152

PART-TIME REPRESENTATIVES required to work on good commission basis for nationally advertised hair beauty preparations selling to wholesale and retail chemists, stores and hairdressers. Well-established connection with excellent prospects. The two areas vacant are: (a) South Wales; (b) Northants, Beds, Oxon, Bucks, Berks, Herts, Suffolk and Norfolk. Write in confidence to Sales Manager, Box C 2221.

PHARMACEUTICAL, drug and galenical manufacturers have vacancy for qualified man to take charge of manufacturing such preparations in Birmingham. Modern working conditions in new building. Good prospects for man with experience and initiative. Write Southall Bros. & Barclay, Ltd., Priory House, Gooch Street, Birmingham, 5. C 8194

PROCESS WORKERS fully experienced in the production of galenicals, required by C. J. Hewlett & Son, Ltd., for their new factory at Watford. 5-day week, canteen. Applications for interview to Staff Manager, Watford 7761. C 8197

QUALIFIED LADY OR GENTLEMAN, duties mostly dispensing, 44-hour week, no Sunday duty. Battles, Ltd., Chemists, Stonebow, Lincoln. C 2273

REPRESENTATIVES with good connections with chemists, department stores, wholesalers, etc., required in the following areas by manufacturers of toilet preparations:—London; Yorkshire and/or counties north thereof; Surrey, Sussex, Kent; Home Counties; West of England and Northern Ireland. Full-scale national advertising is scheduled to commence in *Woman*, *Woman's Own*, etc., on June 2, and although representatives will be on a commission basis this should give an energetic representative a commencing income of at least £5 per week. This is an excellent opportunity for the right men with an eye to the future. Write in the first instance giving details of area covered, period between visits, etc., to Box C 8190.

REPRESENTATIVE REQUIRED by firm of manufacturing chemists to call on doctors, hospitals and chemists in connection with ethical pharmaceutical specialities. Territory, Yorkshire. Applicant must live on ground. Box C 2276.

REPRESENTATIVES wanted calling on chemists and stores in Wales, Glasgow, and N.E., S.W., E., S.E., and Southern Counties England. Generous commission on very competitive line. Box C 2280.

REPRESENTATIVE REQUIRED with pharmaceutical background, to sell drugs and galenicals to chemists in S.E. Lancs. Previous selling experience necessary and a connection in this area advantageous. Remuneration by salary, liberal commission and expenses. Please give all relevant details of previous experience and salary desired. Box C 2268.

REQUIRED, A YOUNG PHARMACIST for a position as assistant manager in well-known London factory of pharmaceutical and toilet preparations. The post offers good prospects for a man who is keen to make a career for himself in the pharmaceutical industry. Write stating age, experience and salary required to Box C 8186.

YORKSHIRE, Lancashire and Cheshire, Scotland. Representatives or agents required for above areas by manufacturers of superbly presented and readily saleable proprietaries and medicated confectionery. Consideration given to those seeking joint representation with present house. Applicants must be car owners with firmly established connections amongst chemists and allied trades. The positions provide real scope. Remuneration by arrangement. Replies giving complete information in confidence to Box C 2262.

YOUNG PHARMACIST, interested in gaining experience in the manufacture of perfumes and cosmetics, required by well-known perfumery house, with a pharmaceutical subsidiary, in South of England. Opportunity for a young man seeking advancement. Box C 2252.

WHOLESALE (OVERSEAS)

DISPENSER/STOREKEEPER
required for
SWAZILAND GOVERNMENT
MEDICAL DEPARTMENT
on probation for pensionable establishment. Salary scale £610 rising to £840 a year plus a temporary allowance, according to marital status, of £57 or £115 at minimum and £78 or £157 at maximum. Commencing salary according to experience. Free passages. Liberal leave on full salary after each tour of 3 years. N.H.S. superannuation rights can be preserved in approved cases. Applicants should be M.P.S. of Great Britain or possess R.A.M.C. Certificate of Dispenser, Class I, or equivalent qualification. They should preferably have a sound knowledge of medical storekeeping and methods of accounting and ordering, and should have experience in dealing with medical, surgical, and general hospital stores and equipment. Write to the Crown Agents, 4 Millbank, London, S.W.1, state age name in block letters, full qualifications and experience, and quote M3A/35069/CD. C 8177

PLANT MANAGER required for extraction plant in East Africa. Applicant should have chemical engineering knowledge and be capable of controlling European and Native labour. Responsible for plant installations and general maintenance. Must be conscientious and undertake control of plant process. Salary from £1,500 upwards according to experience. Home leave, pension and bonus scheme. Write Box "MR/49," c/o 95 Bishopsgate, E.C.2. C 208

THE REPRESENTATION of an internationally known pharmaceutical company is to be extended in British West Africa. Applications are invited from pharmacists. The successful applicant must be aged 25–40 years, possess good health and be able to organise propaganda throughout the whole area as well as being capable of influencing doctors and traders in personal discussions. This appointment, which should lead to a managerial post, carries good salary and service conditions, an 18-months' tour of duty and 3-months' home leave with passage paid. Apply to Box C 2251

YOUNG, SINGLE, QUALIFIED CHEMIST required for factory in Karachi, Pakistan, manufacturing branded consumer goods under licence from international company. Pharmaceutical or cosmetic experience desirable. Two-year contract with return tourist air passage, suitable accommodation available. Salary Rs. 1,200 per month (approximate Sterling equivalent £129). Please send full details to Chief Chemist, Box C 8184.

SITUATIONS WANTED

3/- for 18 words (min.) then 2d. per word. Box 1/-

WHOLESALE

CHARGEHAND tablet maker and sugar-coater, and all appertaining to the manufacture, 35 years' experience, single and rotary machines. Box C 2263.

COSMETIC CHEMIST, formulation, control, production, extensive pharmaceutical experience, go anywhere. Chemist, 39 Dartmouth Park Road, London, N.W.5. C 2253

DOCTOR, working part-time as medical adviser to small pharmaceutical company, seeks other similar or full-time appointment. Box C 2266.

GENTLEMAN, long experience veterinary, medical, pharmaceutical, seeks post where no sense, no initiative, no drive, and complete incompetence are required. Box C 2256.

NORTHERN IRELAND situation required by experienced pharmacist (Southern Ireland degree). Wholesale or laboratory work preferred. Box C 2225.

REPRESENTATIVE, many years' experience, excellent connection South Wales, car, phone, seeks change. Box C 2264.

Photographic Binoculars

GI

G.I. Brand Prism Binoculars are finest obtainable. 8x—from £8.3.6 retail. Guaranteed and passed by Institut D'Optique de Paris for optical quality and mechanical precision. Suitable for landscape, nature and long-focus workers.

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FINE GRAIN PAN 120, 620 and 127

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AGENCIES

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AGENTS calling on chemists required to carry new product of interest to all pharmacists. State area covered. Box C 2279.

AGENTS REQUIRED on generous commission basis for well-known and nationally advertised household dyes, to call on chemists in various districts. Full particulars, stating area covered, to Box C 2248.

ESTABLISHED AGENTS REQUIRED in East Anglia and Northern Ireland, calling on hospitals and retail chemists to sell our competitive range of surgical and chemists' sundries. Existing accounts handed over. Liberal commission basis. Full details to Box C 2255.

FIRST-CLASS AGENTS REQUIRED for rapid-selling, extensively nationally advertised product. Only top-class men with well-established chemists' connection considered. All details regarding territory, present agencies, photograph, etc., first letter. In very strictest confidence. Areas open: 1, Glasgow and W. Scotland; 2, Edinburgh and Lothians; 3, Northumberland and Durham; 4, S. Wales; 5, Bristol and West Country; 6, Home Counties; 7, Hants, Wilts and Dorset; 8, N. Ireland. Sales Manager, Andomia Products, Ltd., Grant St., Bradford. P.O. Box 242. C 8182

AGENCIES WANTED

8/6 for 36 words (min.) then 3d. per word. Box 2/-

NEW ZEALAND pharmacist returning to New Zealand seeks agencies for drugs, instruments, toiletries, proprietaries and lines allied to pharmacy including plant hormones and veterinary supplies. All enquiries welcomed. Box C 2231.

BUSINESS OPPORTUNITIES

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CAPITALISING RESERVES

Many Private Companies have REVENUE RESERVES which can be CAPITALISED by issuing Bonus Shares. Whilst this operation does not result in any CASH ADVANTAGE to the Shareholders, proposals can be submitted to remove this disadvantage by:

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BUSINESS BROKERS LIMITED
46 St. James's Place, London, S.W.1.
Telephone: Hyde Park 1678.
C 8205

COMPANY (manufacturing chemists) with tax losses providing a tax gain of £21,000 net. Price 33⅓ per cent. of tax gain. Box C 2277.

IMPORTANT group of companies having pharmaceutical manufacturing facilities are able to offer their services for the manufacture and packaging of products in tablet, ampoule or liquid form. Box C 2270.

MANUFACTURING CHEMISTS invite inquiries for the manufacture, packing, etc., of private formulæ preparations, liquids, powders, tablets. Dispatch facilities available with own printing department. Frank Macowal & Yanatas, Ltd., Willshaw St., London, S.E.14. Tel.: Tideway 3846–8. C 122

SILICONE RUBBER for extreme temperatures, extremely long life, frequent sterilisation and research work: bungs, bottle cap liners, washers, teats for drop bottles, tubing, hospital sheeting and mouldings to customers' specifications. Esco (Rubber), Ltd., 34/36 Somerford Grove, London, N.16. C 8141

WANTED

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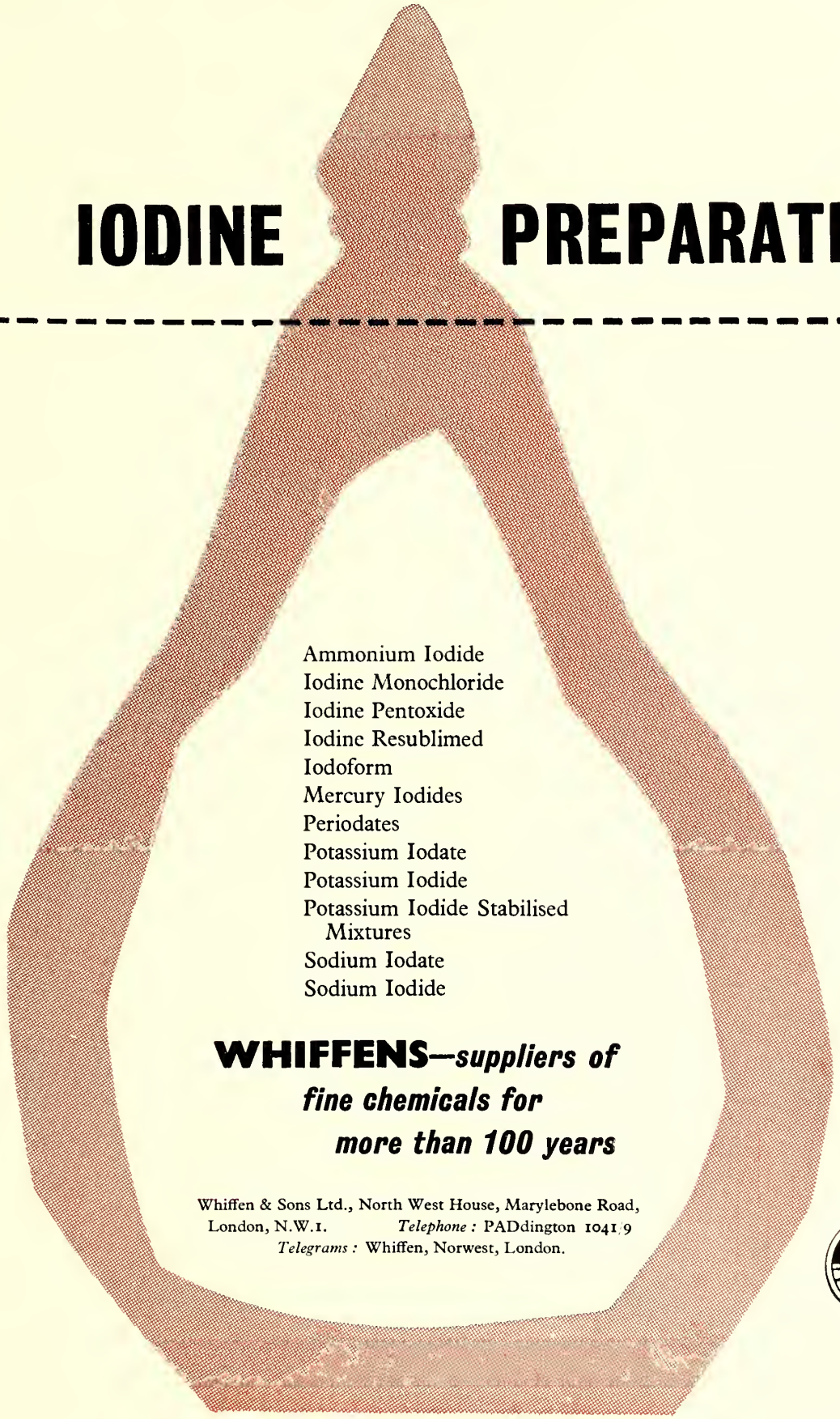
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The CHEMIST AND DRUGGIST
MARCH 12 1955

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